Model DVD600II

DVD/CD/CD-R/CD-RW/VCD Changer

From the Cinema Propack™ 600II System

Service Manual

CONTENTS

SPECIFICATIONS……..……2
SET-UP GUIDE……..……4
FRONT PANEL CONTROLS……..……7
FRONT PANEL DISPLAY……..……8
REAR PANEL CONNECTIONS……..……9
REMOTE CONTROL FUNCTIONS……10
OPERATION……..……14
BASIC TROUBLESHOOTING……..……21
EXPLODED VIEW……..……24
EXPLODED/MECHANICAL PARTS LIST…25
SERVICE BULLETIN JBL2002-01……..26
SERVICE BULLETIN JBL2003-01……..28
SERVICE BULLETIN JBL2003-07……..29
TECH TIP JBLTT2003-03……..30
BLOCK DIAGRAM……..……31
IC901 MICROPROCESSOR……..……32
ELECTRICAL PARTS LIST……..……38
PACKAGING……..……44
PCB DRAWINGS……..……45
POWER SUPPLY……..……50
SCHEMATICS……..……55
WIRING DIAGRAM……..……63

JBL Consumer Products
250 Crossways Park Dr.
Woodbury, New York 11797

Rev2 9/2005

Technical Specifications

DVD600II

Playback Media:	5-inch (12cm) or 3-inch (8cm) DVD-Video: Region 1, single or dual sides/layers, linear PCM, Dolby Digital or DTS CD, CD-R, CD-RW: Linear PCM Audio MP3 Video CD (VCD): MPEG-1 Video, Linear PCM Audio
Video Section:	
Signal format:	NTSC
Composite Output:	1V p-p/75 ohms, sync, negative polarity
S Output:	Y/Luminance: 1V p-p/75 ohms, sync, negative polarity C/Chrominance: 0.286V p-p
Component Outputs:	Y: 1V p-p/75 ohms, sync, negative polarity Pr: 0.648V p-p/75 ohms Pb: 0.648V p-p/75 ohms
Audio Section:	
Coaxial Digital Output:	0.5V p-p/75 ohms
Frequency Response:	2Hz to 22kHz, +/– 0.5dB (44.1kHz sampling rate)
Dynamic Range:	DVD: 105dB (20-bit) CD: 100dB
Channel Separation:	90dB
THD:	0.0035%
Signal-to-Noise Ratio:	100 dB
Wow and Flutter:	below measurable limits
General:	
Unit Power Consumption:	25W
Unit Dimensions:	Width: 17.3 inches (440mm) Height: 5.1 inches (130mm) Depth: 16.9 inches (420mm)
Unit Weight:	14.4 lb (7.6kg)

Depth measurement includes knobs and buttons.
Height measurement includes feet and chassis.
All features and specifications are subject to change without notice.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation and is intended for home and other limited viewing uses only, unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

DATE:SEP 26.2001

1. Audio

* Test Disc : YEDS 7(Sony),EIAJ CD-1

Item		Nominal Spec	Limite Spec	Test Conditions	Test Track	Data
Coaxial(75Ω)	Output Level	0.5 + 0.05V(p-p)			1	

2. Video(75□ Terminated) --->NTSC VIDEC

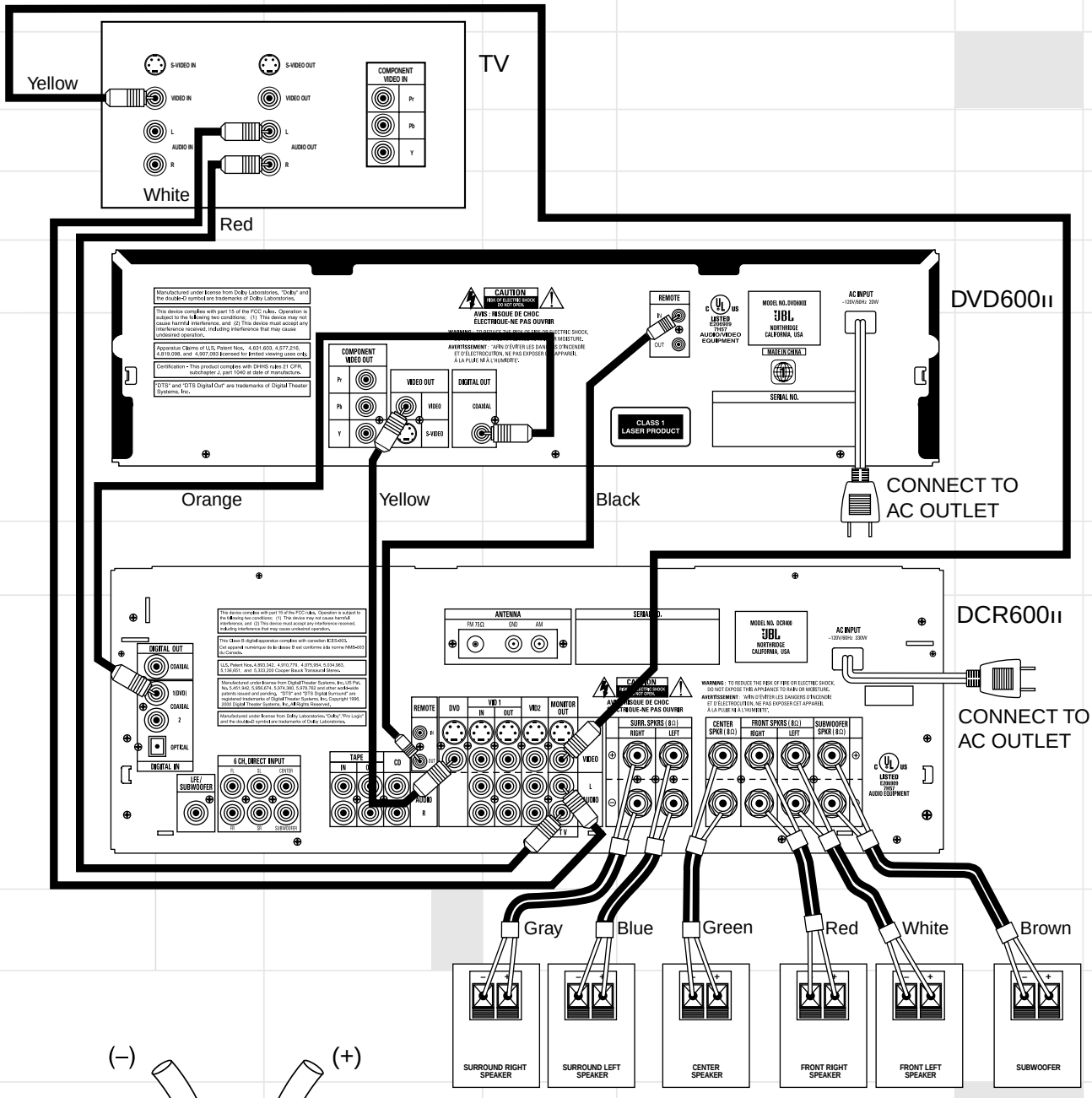
* Test Disc : Navigation Vol 1 FOR SYSTEM(DVD-NF200)

* VM700T

Item		Norminal Spec	Limite Spec	Test Conditions	est Trac	Data
C-Video Output level	RCA JACK Level	1.0V ± 0.1(p-p)		100% Flat	1 - 1 -7	
S - Video	(Y)Output Level	1.0V ± 0.1(p-p)		100% Flat	1 - 1 -7	
	(C)Output Level	0.286V(p-p) ± 20%		100% Flat	1 - 1 -1	
Y/Cb/Cr Video	Y Output Level	1.0V(p-p) ± 10%		100% Flat	1 - 1 -1	
	Cb Output Level	0.7V(p-p) ± 20%		100% Color Bar		
	Cr Output Level	0.7V(p-p) ± 20%		100% Color Bar		
C-Video	RCA JACK Freq. Resp.	0±2.5dB		40 IRE Multiburst 4.2 MHz±0.5MHz(NTSC)	-1 - 8 -	
S - Video	S-JACK Freq.Resp	Frequency Response	Frequency Response			
C-Video	RCA JACK S/N	60dB	55dB	50% Flat BPF : 100KHz ~ 5.0MHz WTD : Off, SC TRAP On	1 - 1 - 6	
S - Video	S- JACK S/N	Video S/N	Video S/N			
C-Video	RCA Jack Color S/N	60dB	55dB	100% Red Color HPF : 10KHz LPF : 500KHz	- 1 - 8 -	
S - Video	S- Jack Color S/N	Color S/N AM/PM	Color S/N AM/PM			
C-Video	Color Burst Error	±120Hz	±150Hz	75% Color Bar	1 - 1 - 1	
S - Video						

Quick Installation Diagrams

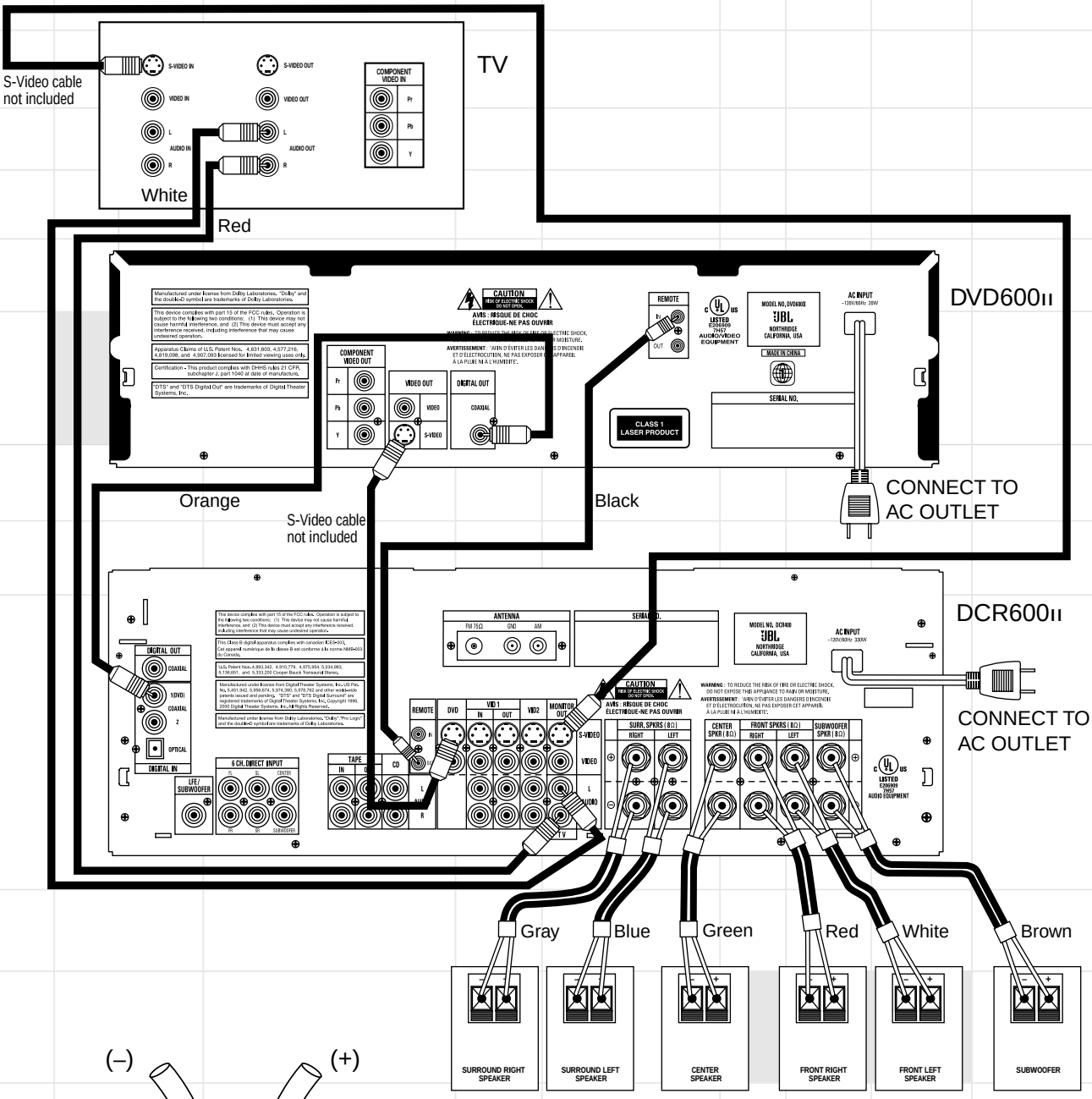
BASIC INSTALLATION: Your TV must at a minimum have a composite video input (this connector usually has a yellow-colored core), and Left (usually has a white-colored core) and Right (red-colored core) Stereo audio preamp-level RCA outputs. All wires for this hookup are included.

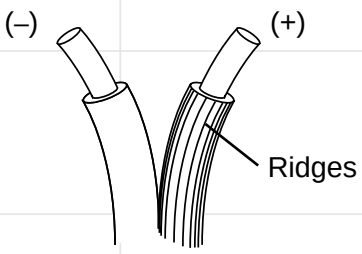


NOTES:
1. CONNECT “RIDGED” WIRE TO (+) COLORED TERMINAL AND CONNECT “SMOOTH” WIRE TO (–) BLACK TERMINAL ON DCR600II AND SPEAKERS.
2. WIRE COLOR CODES ARE FOR EASE OF CONNECTION. THE SPEAKER WIRES CAN BE INTERCHANGED IF NECESSARY.

Quick Installation Diagrams

ALTERNATE INSTALLATION FOR BETTER PICTURE QUALITY: Your TV must have an S-Video input, and Left (usually has a white-colored core) and Right (red-colored core) Stereo audio preamp-level RCA outputs. Two pieces of S-Video cable are not included and should be purchased separately.

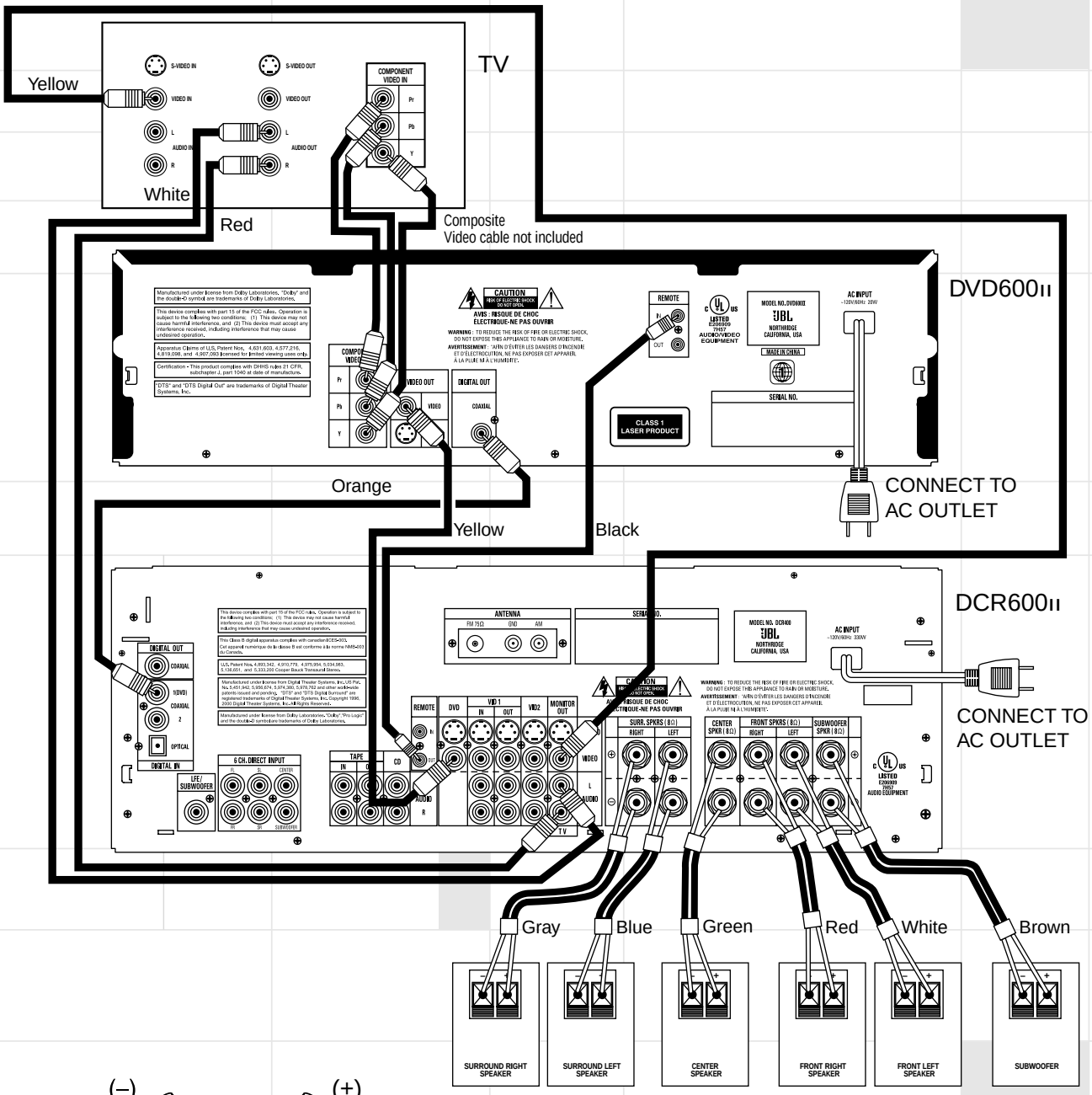


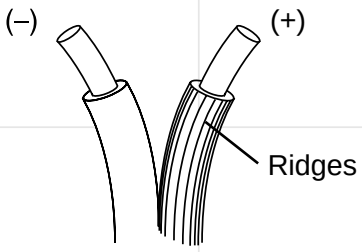


NOTES:
1. CONNECT “RIDGED” WIRE TO (+) COLORED TERMINAL AND CONNECT “SMOOTH” WIRE TO (–) BLACK TERMINAL ON DCR600II AND SPEAKERS.
2. WIRE COLOR CODES ARE FOR EASE OF CONNECTION.
THE SPEAKER WIRES CAN BE INTERCHANGED IF NECESSARY.

Quick Installation Diagrams

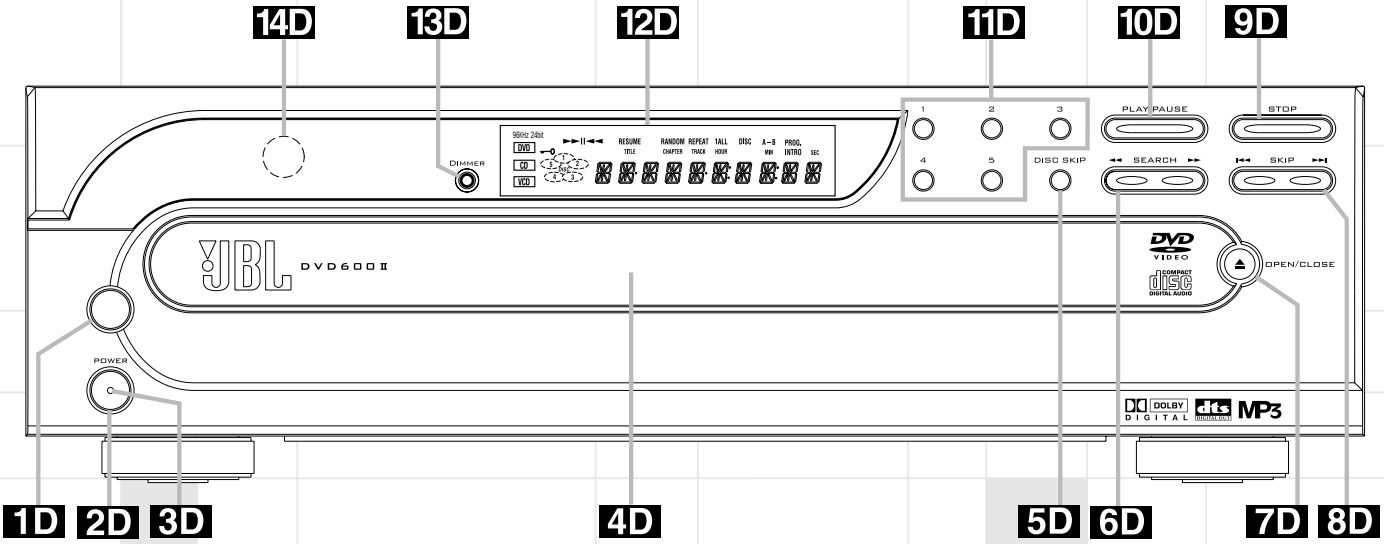
ALTERNATE INSTALLATION FOR BEST PICTURE QUALITY: Your TV must have Y/Pr/Pb component video inputs (three separate RCA connectors with red-, blue- and green-colored cores), and Left (usually has a white-colored core) and Right (red-colored core) Stereo audio preamp-level RCA outputs. The component video cable is not included and should be purchased separately. This setup requires that the TV's own video switching is utilized to access the DVD picture. All other video switching is still done through the DCR600II.





NOTES:
1. CONNECT "RIDGED" WIRE TO (+) COLORED TERMINAL AND CONNECT "SMOOTH" WIRE TO (–) BLACK TERMINAL ON DCR600II AND SPEAKERS.
2. WIRE COLOR CODES ARE FOR EASE OF CONNECTION.
THE SPEAKER WIRES CAN BE INTERCHANGED IF NECESSARY.
3. MUST USE VIDEO SWITCHING THROUGH TV TO ACCESS COMPONENT VIDEO.

DVD600II Front Panel Controls



1D Main Power Switch: Press this button to apply power to the DVD600II. When the switch is pressed in, the unit is placed in a Standby mode, as indicated by the amber **Power Indicator 3D** surrounding the **System Power Control 2D**. This button MUST be pressed in to operate the unit. To turn the unit off and prevent the use of the remote control, this switch should be pressed until it pops out from the front panel so that the word "OFF" may be read at the top of the switch.

NOTE: This switch is normally left in the "ON" position.

2D System Power Control: When the **Main Power Switch 1D** is "ON," press this button to turn on the DVD600II; press it again to turn the unit off. Note that the **Power Indicator 3D** in the center of the switch will turn green when the unit is on.

3D Power Indicator: This LED will be illuminated in amber when the unit is in the Standby mode to signal that the unit is ready to be turned on. When the unit is in operation, the indicator will turn green.

4D Disc Tray: Holds up to five DVD or CD discs that can be played one at a time in the DVD600II.

5D Disc Skip: Press twice in quick succession to change the disc being played. This will move the tray forward to the next occupied position, skipping over the empty-disc positions.

6D Search Forward/Reverse: Press to move forward or backward through a disc at one of four speeds. Each press and release will increase the search speed, as indicated in the on-screen display. Once you have selected the desired speed, release the button and the disc will continue to search at fast speed. To resume normal playback speed, press the **Play Button 10D**.

7D Open/Close Button: Press to open or close the **Disc Tray 4D**. Upon closing the disc tray, the On Screen Library system will begin to identify all loaded discs.

8D Skip Forward/Reverse: Press to move forward or backward through the music tracks or chapters on a disc.

9D Stop: Press once to place the disc in the Resume mode, which means that playback will stop, but (as long as the tray is not opened or the disc changed) DVD playback will continue from the same point on the disc when the Play button is pressed again. Resume will also work if the unit was turned off. To stop a disc and have play start from the beginning, press the button twice.

10D Play/Pause: Press to begin playback of a disc, or to momentarily pause playback. If a DVD is playing, action will freeze and a still picture will be displayed when the button is pressed.

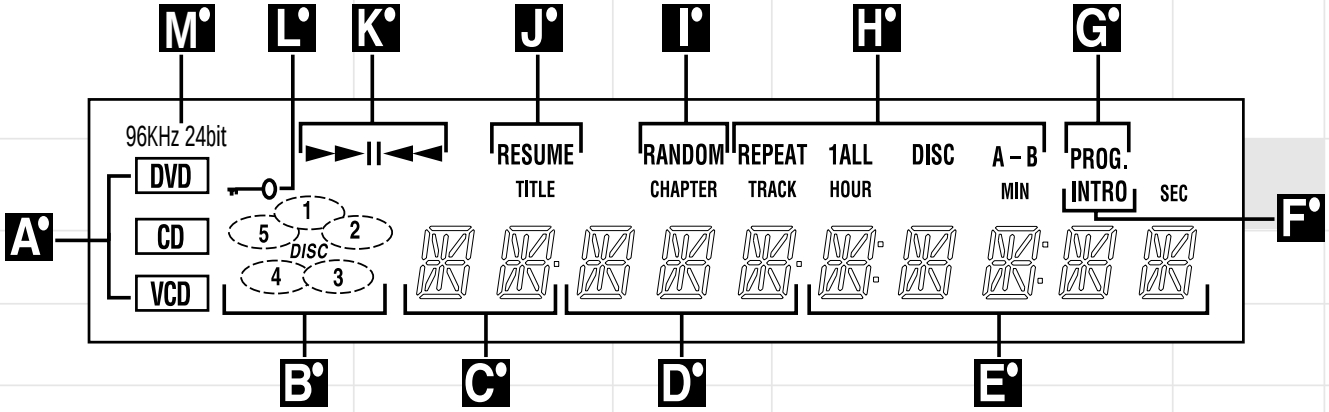
11D Direct Access Buttons: Press one of these buttons to play any of the five discs loaded in the Disc Tray.

12D Information Display: This display contains a variety of indicators that provide information about the status of the DVD600II and the disc currently playing.

13D Display Dim: Press this button to adjust the brightness of the Information Display by 50% or to turn the display off completely in the following order: FULL BRIGHTNESS ➔ HALF BRIGHTNESS ➔ OFF ➔ FULL BRIGHTNESS.

14D Remote Sensor: The sensor that receives the infrared commands from the remote control is behind this area. Do not cover or obscure this part of the front panel, in order to avoid a malfunction with the remote.

DVD600II Front Panel Information Display



A Disc Type: Lights to show the type of disc currently being played.

B Disc Number: Shows if a disc is loaded in a tray position. The indicator for the disc in play flashes. Note that if a disc is added to or removed from the tray while a disc is playing, the indicator will not show the change until all discs are cycled.

C Title: Shows the DVD title number currently playing.

D Chapter/Track Number: Shows the current chapter (DVD) or current track number (CD).

E Program Time: Shows the running time of a DVD; current track time; time remaining in the current track; or the total remaining time of a CD.

NOTE: The Program Time Indicators will also display text messages about the DVD600II's status, including `Reading` when a disc is loading, `Bye` when the unit is turned off, and `Disc Error` when a disc not compatible with the DVD600II is put into the play position.

F Intro: Lights when the IntroScan function is active.

G Program: Lights during programming.

H Repeat: Lights to indicate any of the Repeat modes.

I Random: Lights when the unit is in the Random Play mode.

J Resume: Lights when the Stop button has been pressed once to put the unit in the Resume mode.

K Playback Mode: Lights to show the current playback mode:

▶ Lights when a disc is playing in the Normal mode.

▶▶ Lights when the disc is in the Fast Search Forward mode. For DVDs, when both triangles glow steadily, the disc plays at 2x normal speed. When the right triangle is flashing, the disc plays at 4x normal speed. When the left triangle is flashing, the disc plays at 8x normal speed. When both triangles are flashing, the disc plays at 16x normal speed. For CDs, only the first three Fast Search modes are available.

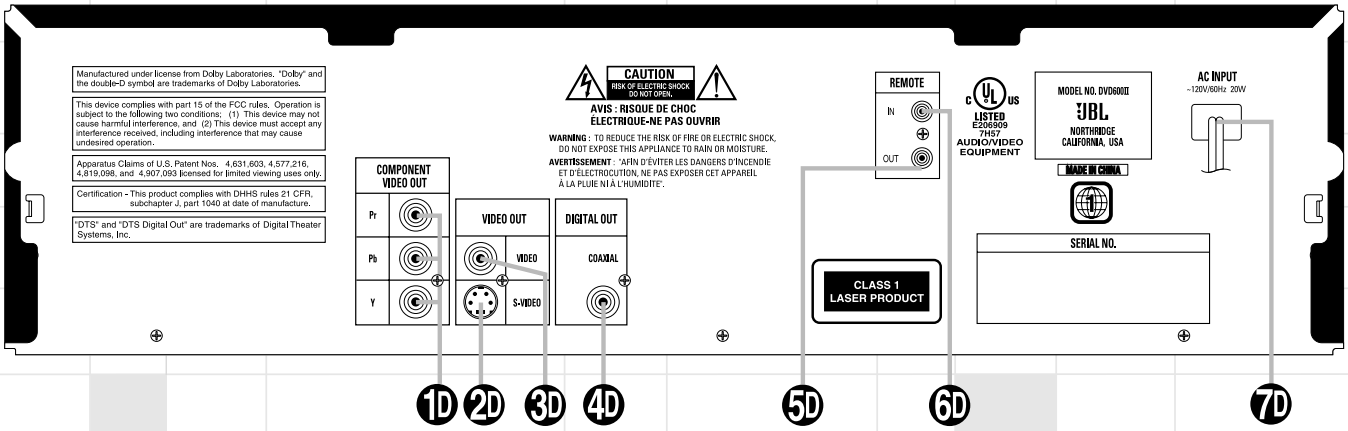
▶❙❙ Lights when the disc is paused.

◀◀ Lights when the disc is in the Fast Search Reverse mode. For DVDs, when both triangles glow steadily, the disc plays at 2x normal speed. When the left triangle is flashing, the disc plays at 4x normal speed. When the right triangle is playing, the disc plays at 8x normal speed. When both triangles are flashing, the disc plays at 16x normal speed. For CDs, only the first three Fast Search modes are available.

L Parental Lock Indicator: This indicator lights when the parental-lock system is engaged in order to prevent anyone from changing the rating level without a code.

M 96kHz/24-Bit Indicator: When a high-resolution, linear PCM bitstream with a sampling rate of 96kHz/24 bits is detected, this indicator will light. Such a selection may be found as an alternative audio track on a DVD-Audio disc.

DVD600II Rear Panel Connections


Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.
Apparatus Claims of U.S. Patent Nos. 4,631,603, 4,577,216, 4,819,098, and 4,907,093 licensed for limited viewing uses only.
Certification - This product complies with DHHS rules 21 CFR, subchapter J, part 1040 at date of manufacture.
"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.
CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN
AVIS : RISQUE DE CHOC ELECTRIQUE-NE PAS OUVRIR
WARNING : TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.
AVERTISSEMENT : 'AFIN D'ÉVITER LES DANGERS D'INCENDIE ET D'ÉLECTROCUTION, NE PAS EXPOSER CET APPAREIL À LA PLUIE NI À L'HUMIDITÉ'.
COMPONENT VIDEO OUT
Pr
Pb
Y
VIDEO OUT
VIDEO
S-VIDEO
DIGITAL OUT
COAXIAL
REMOTE
IN
OUT
CLASS 1 LASER PRODUCT
c UL us
LISTED
E206909
7H57
AUDIO/VIDEO EQUIPMENT
MODEL NO. DVD600II
JBL
NORTHRIDGE
CALIFORNIA, USA
MADE IN CHINA
SERIAL NO.
AC INPUT
~120V/60Hz 20W
1D
2D
3D
4D
5D
6D
7D

1D Component Video Outputs: If your TV or video projector has component video inputs, you may connect these output jacks to the set for the highest video quality available. Note that the component video inputs may be labeled as Y/Pr/Pb or Y/Cr/Cb but, for connection purposes, they are the same. The outputs of these jacks should NOT be connected to a standard composite video input.

2D S-Video Output: Connect this jack to the S-Video input on a television or video projector, or to an S-Video input on an A/V receiver or processor if you are using that type of device for S-Video input switching.

3D Composite Video Output: Connect this jack to the video input on a television or video projector, or to a video input on an A/V receiver or processor if you are using that type of device for video input switching.

4D Coaxial Digital Output: Connect this jack to the coaxial digital input of an A/V receiver or surround processor for Dolby Digital, DTS or PCM audio playback.

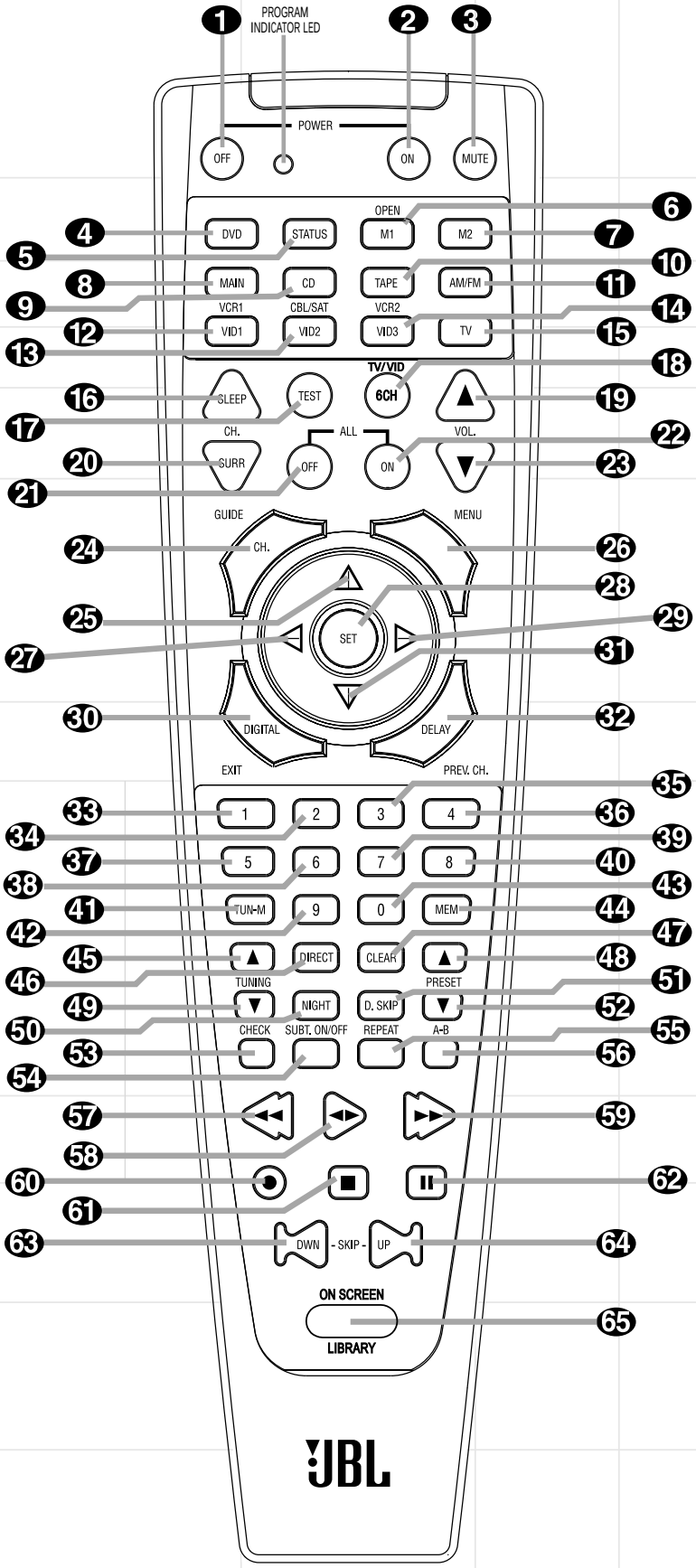
NOTE: The coaxial digital output should only be connected to a digital input. Even though it is the same RCA-type connector as standard analog audio connections, DO NOT connect it to a conventional analog input jack.

5D Remote Control Output: Connect this jack to the infrared (IR) input jack of another JBL (or other compatible) remote-controlled product to have the built-in **Remote Sensor 14D** on the DVD600II provide IR signals to other compatible products.

6D Remote Control Input: Connect the output of a remote infrared sensor, or the remote control output of another JBL (or other compatible) product, to this jack. This will enable the remote control to operate even when the front panel **Remote Sensor 14D** is blocked. This jack may also be used with compatible IR remote control-based automation systems.

7D AC Power Cord: Connect this plug to an AC outlet. If the outlet is controlled by a switch, make certain that it is in the ON position.

Remote Control Functions



1 Power Off Button: Turns off the power to a device selected by pressing its Input Selector.

2 Power On Button: Turns on the power to a device selected by pressing its Input Selector.

3 Mute Button: Press to momentarily silence the DCR600II or TV set being controlled, depending on which device has been selected.

When the remote is being programmed to operate an external device, such as a CD player, this button is pressed, together with the Input Selector button for the new device, to begin the programming process.

4 DVD Input Selector: Pressing this button will perform three actions: 1) If the DCR600II is not turned on, it will power up. 2) It will select DVD as the input source. 3) It will switch to the page for the DVD600II, which will cause the remote to operate only the DVD changer. Press the **Main Button 8** to return the remote to control of the DCR600II receiver.

IMPORTANT NOTE: The remote control for the JBL Cinema ProPack 600II may be programmed to control up to eight devices, including the DCR600II and DVD600II. It is helpful to think of the remote as being organized into "pages," with one page for each device. Depending on which device has been selected, the buttons on that device's page will perform different functions, as listed starting on this page. These functions may vary from the labels on the remote, and from one device to the next. Some buttons may perform no function at all for a given device.

In order to go to the page for a particular device, such as the DVD600II, you will need to press the Input Selector button for that device (DVD in this case), located in a grouping just below the power buttons. The remote will then function as if it were dedicated to the DVD600II.

If you would like to make an adjustment that affects the DCR600II receiver, such as turning the volume up or down, you must first go to the page for the DCR600II by pressing its Input Selector button. This button is labeled "Main" on the remote. The exception to this rule is that the transport functions of the DVD600II – Play, Forward and Reverse Search, Stop, Pause, and Previous and Next Chapter/Track Skip – may be accessed from the "Main" page, without having to jump to the DVD page.

❺ Status Button: This button operates only when the DVD600II has been selected. When a disc is playing, pressing this button will display the Status Banner, which contains information about the disc and enables you to change the functions.

❻❼ M1 and M2 Macro Buttons/Open-Close Button: Press these buttons to store or recall a "Macro", which is a preprogrammed sequence of commands stored in the remote.

When the DVD600II has been selected, the **M1 Button ❻** functions to open or close the disc tray drawer. (**M2 ❼** has no function.) If the drawer is opened while a disc is still playing, playback will continue and discs not in use may be changed. If the drawer is opened while the unit is stopped, the disc that was playing will be presented at the front-center position of the tray.

❽ Main Input Selector: Pressing this button will perform two actions: 1) If the DCR600II is not turned on, it will power up. 2) It will switch to the page for the DCR600II, which will cause the remote to operate only the receiver and the transport functions of the DVD600II.

❾ CD Input Selector: Pressing this button will perform three actions: 1) If the DCR600II is not turned on, it will power up. 2) It will select CD as the input source. 3) It will switch to the page for the CD player whose codes have been programmed into the remote, which will cause the remote to operate only the CD player. Press the **Main Button ❽** to return the remote to control of the DCR600II receiver.

❿ Tape Input Selector: Pressing this button will perform three actions: 1) If the DCR600II is not turned on, it will power up. 2) It will select TAPE as the input source. 3) It will switch to the page for the tape deck whose codes have been programmed into the remote, which will cause the remote to operate only the tape deck. Press the **Main Button ❽** to return the remote to control of the DCR600II receiver.

⓫ AM/FM Tuner: Selects the receiver's tuner as the listening choice. Pressing this button when the tuner is already in use will select between the AM and FM bands.

⓬ Video 1 Input Selector (VCR 1): Pressing this button will perform three actions: 1) If the DCR600II is not turned on, it will power up. 2) It will select VIDEO 1 as the input source. 3) It will switch to the page for the video device whose codes have been programmed into the remote, which will cause the remote to operate only that video device. You may find it convenient to connect your VCR to the Video 1 input, since it is the only video source that also features outputs for recording. Press the **Main Button ❽** to return the remote to control of the DCR600II receiver.

⓭ Video 2 Input Selector (Cable or Satellite): Pressing this button will perform three actions: 1) If the DCR600II is not turned on, it will power up. 2) It will select Video 2 as the input source. 3) It will switch to the page for the video device whose codes have been programmed into the remote, which will cause the remote to operate only that device. You may find it convenient to connect your cable television box or satellite receiver to this input. Press the **Main Button ❽** to return the remote to control of the DCR600II receiver.

⓮ Video 3 Input Selector (VCR 2): Pressing this button will perform three actions: 1) If the DCR600II is not turned on, it will power up. 2) It will select VIDEO 3 (the front panel input) as the input source. 3) It will switch to the page for the video device whose codes have been programmed into the remote, which will cause the remote to operate only that video device. Since this input is located on the front panel of the receiver, you may find it convenient to temporarily connect a camcorder, video game, or a second video cassette player to the Video 3 input. Press the **Main Button ❽** to return the remote to control of the DCR600II receiver.

⓯ TV Input Selector: Pressing this button will perform three actions: 1) If the DCR600II is not turned on, it will power up. 2) It will select TV as the input source. 3) It will switch to the page for the television whose codes have been programmed into the remote, which will cause the remote to operate only that device. You may find it convenient to connect your television to this input, particularly since it does not have a video input associated with it, the assumption being that the program signal originates at the TV, and that the TV is already displaying the video portion of the signal. Press the **Main Button ❽** to return the remote to control of the DCR600II receiver.

⓰ Sleep: Places the DCR600II in the Sleep Timer mode. After the time shown in the display has elapsed, the DCR600II will automatically go into Standby. Each press of this button changes the time until turn-off in intervals of 10 minutes, starting with a maximum of 90 minutes.

This button is also used to change channels on your TV when the TV is selected.

This button is also used during the "Auto Search" procedure when programming the remote.

⓱ Test: Begins the sequence used to calibrate the speaker output levels.

When the CD input has been selected and a CD recorder is in use, this button is used to select among the analog and digital inputs to the CDR.

⓲ 6CH (TV/VID): Press to select the **6-Channel Direct Input ❺** as the input source. When used with a compatibly programmed VCR, DVD, TV or Satellite receiver that has a "TV/Video" function, pressing this button will switch between the output of that device and the external video input to that device. Consult the owner's manual for your specific player or satellite receiver for the details of how it implements this function.

⓳ Volume Up: Use to raise the system volume.

⓴ Surround Mode/Audio: Begins the process of changing the surround mode when the DCR600II is selected. After the button has been pressed, use the **▲/▼ Buttons ㉕ ㉛** to select the desired surround mode.

When the DVD600II is selected, this button allows you to select from the available audio tracks (including audio surround modes) or languages on a DVD disc that is currently playing. Press this button repeatedly until the desired audio selection appears.

This button is also used to tune channels when the TV is selected.

This button is also used during the "Auto Search" procedure when programming the remote.

㉑ All Off: This feature of the JBL One-Click™ (patent pending) remote simultaneously sends Power Off commands to all programmed devices controlled by the remote.

㉒ All On: This feature of the JBL One-Click remote simultaneously sends Power On commands to all programmed devices controlled by the remote.

㉓ Volume Down: Use to lower the system volume.

㉔ Channel/Title/Guide: Starts the process of setting the receiver's speaker output levels using an input source rather than the test tone. Press this button, then use the **▲/▼ Buttons**

㉕ ㉛ to select the channel being adjusted, followed by the **Set Button** ㉘. You may then use the ▲/▼ **Buttons** ㉕ ㉛ again to change the level for that channel. Press the **Set Button** ㉘ to lock in the setting.

When using the DVD600II to play a DVD disc, this button functions as a Title button, and displays the disc's Title Select Menu, or a symbol (Ø) if the disc either does not offer this function or has only one title.

When the Video 2 input has been programmed for a cable or satellite service, this button will access the service's programming guide, if the service is active.

㉕ **▲:** Used to change or scroll through items in the on-screen menus, or to change configuration settings, such as output levels. When changing an item such as the surround mode or digital input directly, first press the function or mode to be changed, such as Surround Mode or Digital Input, and then press this button to scroll through the list of available choices. In DVD mode, press this button to skip to the next higher chapter of the current disc.

㉖ **Menu:** Used only with video sources. When DVD is selected, pressing this button while a DVD disc is playing stops playback and displays the disc's menu. When the unit is stopped, pressing this button displays the DVD player's Setup Menu.

㉗ **◀:** Used to change the menu selection or setting during some of the setup or other procedures. In DVD mode, press this button to play the current disc in Fast Reverse mode.

㉘ **Set:** Used to enter settings into the memory of the DCR600II, DVD600II or video device selected. Also used in the setup procedures for delay time, speaker configuration and channel output level adjustment. When the DVD600II has been selected, pressing this button will select the item that is highlighted in the Status Banner, or in the on-screen menu displayed by a DVD disc. When the Status Banner has not been activated, pressing this button will alternately Play or Pause the current disc. When the On Screen Library is displayed on-screen, pressing this button will begin play of the currently selected disc.

㉙ **▶:** Used to change the menu selection or setting during some of the setup or other procedures. In DVD mode, press this button to play the current disc in Fast Forward mode.

㉚ **Digital/Subtitle/Exit:** When the DCR600II is selected, press this button to assign one of the digital inputs to a source. When the DVD600II is selected, this button is used to change the subtitle choice. For other video devices, it exits the menu.

㉛ **▼:** Used to change or scroll through items in the on-screen menus, or to change configuration settings, such as output levels. When changing an item such as the surround mode or digital input directly, first press the function or mode to be changed, such as Surround Mode or Digital Input, and then press this button to scroll through the list of available choices. In DVD mode, press this button once to return to the beginning of the current chapter or track, and twice to skip to the next lower chapter or track of the current disc.

㉜ **Delay/Return/Prev Ch.:** Begins the process for setting the delay times used by the DCR600II when processing surround sound. After pressing this button, the delay times are entered by pressing the **Set Button** ㉘ and then using the ▲/▼ **Buttons** ㉕ ㉛ to change the setting. Press the **Set Button** ㉘ again to complete the process.

This button is also used when viewing a menu display from a DVD disc. Press it to return to the previous menu screen.

When the **Video 2 Input** ⑯⑰ has been programmed for a cable or satellite service, this button will skip to the previous channel.

㉝–㊵, ㊷ ㊸ **Numeric Keys:** These buttons serve as a ten-button numeric keypad to enter tuner preset positions. They are also used with the DVD600II to directly access a disc (when pressed within 3 seconds after the **Disc Skip Button** ㊶) or track (when pressed while a disc is playing), to enter data for sequential programming, to enter or change the access password for parental control, to enter a language code, or to respond to menu options presented by a disc. When the TV or another video device is selected, they are used to select channel numbers. They may also be used to select track or chapter numbers when playing a CD or DVD.

㊶ **Tuner Mode/Angle:** Press this button when the tuner is in use to select between automatic tuning and manual tuning. When the button is pressed so that the **AUTO Indicator** T goes out, pressing the **Tuning Buttons** ㊺ ㊾ 8 will move the frequency up or down in single-step increments. When the **AUTO Indicator** T is lit, pressing the **Tuning Buttons** ㊺ ㊾ 8 will cause the tuner to search for the next station with an acceptable signal. When the FM band is in use, pressing this button when a station's signal is weak will change to monaural reception.

When a DVD encoded with multiple-angle information is playing, press to change the angle in use. This function is only available on discs that are specially prepared to take advantage of the multiple-angle function, and only for those parts of the disc that are recorded with multiple-angle content. The DVD600II will display a camera icon on the screen to indicate when this feature is available.

㊹ **Memory:** Enters a radio station into the DCR600II's preset memory. Once the **MEMORY Indicator** Q flashes, you have five seconds to enter a preset memory location using the **Numeric Keys** ㉝–㊵, ㊷ ㊸. Repeat the process to enter additional stations.

㊺ ㊾ **Tuning Up/Down/Step (Frame Advance) Buttons:** When the tuner is in use, these buttons will tune up or down through the selected frequency band. If the **Tuner Mode Button** ㊶ 12 has been pressed so that the **AUTO Indicator** T is illuminated, pressing either of the buttons will cause the tuner to seek the next station with acceptable signal strength for quality reception. When the **AUTO Indicator** T is NOT illuminated, pressing these buttons will tune stations in single-step increments.

When a DVD disc is playing, press these buttons to move forward or backward one frame at a time. Press the **Play/Pause Button** ㊽ 10D to resume normal play. These buttons do not function when a CD is playing.

㊻ **Direct/Program Button:** Pressing this button in tuner mode, or while a CD or DVD is playing, starts the sequence for direct entry of a station's frequency, a CD track or a DVD chapter. After pressing the button, simply press the proper **Numeric Keys** ㉝–㊵, ㊷ ㊸ to select a station, track or chapter. You may also skip to a track or chapter by entering its number, without first pressing the **Direct Button** ㊻.

When the DVD600II is stopped, press this button to display the program menu and enter a programmed play sequence. When a disc is playing, press to switch between normal play and programmed playback, if a playlist has been programmed.

㊼ **Clear Button:** Erases incorrect entries when using the remote to directly enter a radio station's frequency.

When the DVD600II has been selected, press this button to remove the Status Banner or other displays from your video screen. This button is also used to clear items from programmed playlists.

48 52 Preset Up/Down/Slow-Play Buttons: When the tuner is in use, press these buttons to scroll through the stations programmed into the receiver's memory.

When a DVD disc is playing and the DVD600II has been selected, press these buttons to move forward or backward through the disc in slow speed. Each press of these buttons changes the slow-play speed in the following order: 1/16 Normal Speed ➔ 1/8 Normal Speed ➔ 1/4 Normal Speed ➔ 1/2 Normal Speed. To resume normal play, press the **Play/Pause Button 58 10D**. These buttons do not function when a CD is playing.

50 Night Mode/Random: Activates the Night mode of the DCR600II. This mode is available in specially encoded digital sources, and it preserves dialogue (center channel) intelligibility at low volume levels.

When the DVD600II has been selected, press to begin the playback of all tracks on a disc in random order.

51 Disc Skip Button: Press twice in rapid succession to move to the next available disc in the tray when using a DVD or CD player. This button has no direct effect on the DCR600II. When a single press of this button is followed by a disc number, the DVD600II will skip directly to that disc.

53 Check: This button only functions when the DVD600II has been selected. When a CD is playing, press this button to check the status of the current disc via the on-screen display. This button is also used to verify the contents of a programmed playlist via the front-panel Information Display.

54 Subtitle On/Off: This button only functions when the DVD600II has been selected. When a DVD is playing, press this button to turn the Subtitle Display on or off.

55 Repeat: This button only functions when the DVD600II or a CD player has been selected. Press to select one of the Repeat-Play modes: Repeat All (discs), Repeat 1 Disc, Repeat Title, Repeat Track/Chapter. Each press of the button shows the choice selected in both the on-screen Status Banner display or in the **Repeat Indicators** in the front panel Information Display.

56 Repeat A–B: This button only functions when the DVD600II has been selected. Press once to begin the selection of a portion of a disc to be repeated. Press it again to choose the end point of the repeat-play selection. This function is unavailable during programmed or random play.

NOTE: When any of the following buttons **57 – 64** is pressed while the remote has selected the Main Page, the remote will automatically switch to control of the DVD, as indicated by the **DVD Input Selector 4** lighting.

57 Reverse Search/Rewind: When the DVD600II has been selected, press to move backward through a CD or DVD at one of four speeds. Each press and release will increase the search speed, in the following order: R. Search x 2 ➔ R. Search x 4 ➔ R. Search x 8 ➔ R. Search x 16. Once you have selected the desired speed, release the button, and the disc will continue to search at fast speed. To resume normal playback, press the **Play/Pause Button 58 10D**.

When a tape deck or VCR has been selected, this button rewinds the tape.

58 Play Button: Press to begin playback when the DVD600II has been selected. If the disc tray drawer is open, it will automatically close when the button is pushed. Pressing the Play button when the unit is in the Standby mode will turn the unit on and begin playback of the last disc in use.

When a CD player, tape deck or VCR has been selected, pressing this button will also begin playback. See the owner's manual for that device for more information on the operation of the play function as it affects that device.

59 Forward Search/Fast Forward: When the DVD600II has been selected, press to move forward through a CD or DVD at one of four speeds. Each press and release will increase the search speed, in the following order: F. Search x 2 ➔ F. Search x 4 ➔ F. Search x 8 ➔ F. Search x 16. Once you have selected the desired speed, release the button, and the disc will continue to search at fast speed. To resume normal playback, press the **Play/Pause Button 58 10D**. When a tape deck or VCR has been selected, this button fast-forwards the tape.

60 Record Button: This button only functions when a CD/CD-R, tape deck or VCR connected to the **Video 1 Input 12 13 14 15** has been selected. See the owner's manual for that device for further information on how to make recordings.

61 Stop Button: This button has no effect on the DCR600II. When the DVD600II has been selected, press this button once to place the disc in the Resume mode. Playback will stop, and as long as the tray is not opened or the disc changed, DVD playback will continue from the same point on the disc when the **Play/Pause Button 58 10D** is pressed again, even if the unit has been turned off in the interim. To stop a disc without entering Resume mode, press the Stop button twice.

This button also performs the Stop function when a CD player, tape deck or VCR connected to the **Video 1 Input 12 13 14 15** has been selected.

62 Pause Button: Press to pause the disc in use. To resume playback, either press the Pause button again, or press the **Play/Pause Button 58 10D**.

63 64 Previous/Next: Press to move backward or forward through the music tracks on a CD disc or the chapters on a DVD disc. This button also scans backward or forward when a VCR connected to the **Video 1 Input 12 13 14 15** has been selected.

65 On Screen Library™ (patent pending): This feature lists the titles and disc types of all discs currently loaded in the DVD600II on your video screen. The On Screen Library resets automatically every time the DVD600II's disc tray is opened. When the tray is closed, the On Screen Library will need to read and identify all five discs, a process which will take approximately one minute. You may interrupt this process by pressing the **Stop Button 61 .** The On Screen Library will resume the process of identifying the discs when you press the **On Screen Library Button 65**. You may also prevent the On Screen Library from reading and identifying the discs by closing the tray with a press of one of the **Direct Access Buttons 11D,** which will begin play of that numbered disc.

If you have not opened the disc tray since the last time the On Screen Library was accessed, and if the current disc is stopped, you may press this button to display the On Screen Library, even if you have not selected DVD as the input source on the DCR600II. While in DVD mode, use the ▲/▼ **Buttons 25 31** to scroll through the list. Press the **Set Button 28** to play the selected disc. Do not press a **Numeric Key 33 – 40, 42 43** while the On Screen Library is displayed, as it will remove the display without skipping to a different disc.

Program Indicator LED: Lights while programming the remote with device codes, macros, punch-through functions and device reassignments, or while resetting the remote memory.

Operating the DVD600II DVD Changer

Loading Discs

To load discs in the DVD600II, first make certain that the unit is turned on by pressing the **Main Power Switch** 1D so that it latches, and then the **System Power Control** 2D or the **Open/Close Button** 7D 6 or **Play/Pause Button** 10D 58. The **Status Indicator** 3D turns green.

Next, if needed, press the **Open/Close Button** 7D 6 until the **Disc Tray** 4D opens.

Holding the discs by the edge, gently place each one into one of the compartment slots in the drawer. Note that there is a number embossed onto the drawer tray at the right of the disc slot. This is the number for that specific disc position; it will be used to indicate the disc in both the Information Display and the on-screen displays.

When loading discs, please note the following:

- The DVD600II will play discs with the following logos only. DO NOT attempt to play another type of disc, as shown in the list on page 46.

- The DVD600II will only play discs in the NTSC video format. It will not play discs for other standards such as PAL or SECAM.
- Playback capability for CD-RW discs will vary according to the quality of the CD-RW disc. On some occasions, it is possible that CD-RW discs may not play on the DVD600II. This does not indicate any problem with the DVD600II.
- The DVD600II will only play discs that are coded for Region 1 or discs that are open to being played in all regions. Discs that contain a Region Code of 2, 3, 4, 5 or 6 (as noted by a number inside a world map logo on the disc's cover jacket or case) will not play.
- Both 5-inch (12cm) and 3-inch (8cm) discs may be used.
- When loading CD audio discs, load the discs with the label side up.
- When loading DVD discs with printed labels, load them label side up.
- Some DVD discs are double-sided. The title information for these will be printed on the inner ring of the disc, very close to the center hole. The title for the side you wish to play should be facing up.
- The DVD600II is also capable of playing discs containing MP3 audio files.

Notes on DVD-Audio discs:

- The DVD600II is not capable of playing selections in the DVD-Audio format. However, many DVD-Audio discs include audio tracks in the PCM, Dolby Digital or other formats which the DVD600II is capable of playing. You may need to press the **Title Button** 24 rather than the **Menu Button** 26 in order to access these formats.
- Some DVD-Audio discs display a still picture while a selection is playing. Sometimes, this picture may disappear when play is stopped and the DVD600II is placed in the Resume mode. To restore the picture, fully stop play by pressing the **Stop Button** 9D 61 twice before continuing play.

Figure 17. On Screen Library Display

To move the discs in the tray so that you may insert discs in slots that are partially hidden inside the disc tray drawer, press the **Disc Skip Button** 5D 51. Each press of the button will move the carousel tray one position to the left (counterclockwise). There may be a slight delay of several seconds before the carousel moves to the next disc, which is normal. You may avoid the delay by pressing the **Disc Skip Button** 5D 51 twice.

- To access all disc positions, the unit must be in the full-stop position. If the unit is in the Play mode, press the **Stop Button** 9D 61 twice.
- If the disc tray drawer is opened while a disc is playing, the Play Exchange feature allows you to change the remaining four discs. Simply press the **Disc Skip Button** 5D 51 to move the discs in the tray in one direction or the other.

IMPORTANT NOTES ON DISC LOADING

- Remove all discs from the tray before moving the player.
- Make certain that all discs are properly seated before closing tray drawer.
- Do not push the disc tray drawer with the power off.
- Do not attempt to change or touch the disc tray carousel while it is moving.
- Do not attempt to rotate the disc tray by hand. If the tray drawer or carousel tray appears to be stuck, contact your local JBL authorized service center.
- Do not load more than one disc in each slot in the tray and do not attempt to place a standard 5-inch (12cm) disc over a smaller 3-inch (8cm) disc.

Once the discs are loaded, press the **Open/Close Button** 7D 6 to close the disc tray. When the tray drawer closes, the disc that was last in the center position facing outward in the tray will be readied for playback. After the drawer closes, you will see an indication of `Reading` in the Information Display to alert you to the fact that the unit is determining the type of disc (DVD, MP3 or CD) and is reading the data for track, chapter, title and other information about the disc. At the same time, the **Disc Number Indicator** B' for the disc in use will begin to flash, indicating which disc is ready to be played.

You will also see the On Screen Library displayed (see Figure 17). It will take about one minute for all discs to be identified. You may interrupt the process by pressing Stop, by pressing Enter to select a disc, or by scrolling down to the Exit button. When the process is complete, press Play to play the current disc, or scroll to select any disc.

If the tray was closed by pressing one of the five **Direct Access Buttons** 11D on the front panel, the On Screen Library will not be activated.

You may access the On Screen Library later by stopping play of the current disc and pressing the **On Screen Library Button** 65. Use the **▲/▼ Buttons** 25 31 to scroll to the desired disc, and the **Set Button** 28 to begin play of that disc.

Once the disc's data has been read, the type of disc (DVD or CD) will be displayed by the **Disc Type Indicator** A' and the disc will begin playing. The disc's track timing information and other relevant data will appear in the **Information Display** 12D. For CD discs only, a Status Menu Bar will appear in the on-screen display. To view this display for DVD discs, press the **Status Button** 5.

The **Disc Number Indicator** B' will show a lighted number for the disc slot positions that are occupied, and the disc in use will flash.

Playback Basics

Basic playback with the DVD600II involves functions similar to those you may be familiar with for conventional CD players or changers:

Operating the DVD600II DVD Changer

- Turn the unit on by pressing the **System Power Control** 2D, if it has not already been engaged. If there are already discs loaded in the unit, the last disc to be played will automatically begin playing.
- If the disc was stopped using the Resume function, (by pressing the **Stop Button** 9D 61 once) playback will begin from the point where it was stopped. If the disc was stopped by pressing the **Stop Button** 9D 61 twice, the disc will begin playing from its beginning.
- Load any new discs as indicated in the previous section.
- After loading discs, press the **Open/Close Button** 7D 6 to proceed to the On Screen Library, or press a **Direct Access Button** 11D to begin play of the disc in that numbered position.

Playback Features for DVD and CD Discs:

- **To move to the next disc** in the unit, press the **Disc Skip Button** 5D 51.
- **To select a specific disc** in the player, press the **Direct Access Button** 11D corresponding to the slot where that disc is loaded. Or, using the remote, press the **Disc Skip Button** 51, followed within 3 seconds by the number of the disc you wish to play. Or, press the On Screen Library Button 65 to display on-screen a list of the discs currently loaded. Use the **▲/▼ Buttons** 25 31 to select a disc, and press the **Set Button** 28 to begin play.
- **To momentarily pause playback** and freeze the current picture frame on a DVD, press the **Play/Pause Button** 10D 62. To resume playback after pressing the Pause button, press the **Play/Pause Button** 10D 58 again.
- **To move forward or backward through the tracks** on a CD or the chapters on a DVD, press the **Skip Forward/Reverse Buttons** 8D on the front panel or the **Previous/ Next Buttons** 63 64 or the **▲/▼ Buttons** 25 31 on the remote.
- **To skip directly to a specific track** while the current disc is playing, simply enter the track number using the **Numeric Keys** 33–40, 42 43.
- **To move forward or backward through the DVD or CD disc being played at fast speed,** press the **Search Forward/Reverse Buttons** 6D 57 59 or the **◀/▶ Buttons** 27 29. Once one of these buttons is pressed, the fast search will continue until the **Play/Pause Button** 10D 58 is pressed. Note that the fast-play speeds vary for CD discs and DVDs.

For DVD playback, there are four fast-play speeds. Each press of the **Search Forward/ Reverse Buttons** 6D 57 59 27 29 will cycle to the next speed in the following order:

- In Fast Search x2, the ◀◀ and ▶▶ **Playback Mode Indicators** K will both light steadily.
- In Fast Search x4, the outside ◀◀ or ▶▶ **Playback Mode Indicator** K will flash and the inside indicator will remain steadily lit.
- In Fast Search x8, the inside ◀◀ or ▶▶ **Playback Mode Indicator** K will flash and the outside indicator will remain steadily lit.
- In Fast Search x16, both ◀◀ and ▶▶ **Playback Mode Indicators** K will flash.

Note that there will be no audio playback during fast-forward or -reverse play of DVD discs. This is normal for DVD, as A/V receivers and surround processors cannot process the digital audio streams during fast-play modes; audio will be heard during fast-play of conventional CDs.

For CD playback, there are three fast-play speeds. Each press of the of the **Search Forward/Reverse Buttons** 6D 57 59 will cycle to the next speed in the following order:

- In Fast Search x2, the ◀◀ and ▶▶ **Playback Mode Indicators** K will both light steadily.
- In Fast Search x4, the outside ◀◀ or ▶▶ **Playback Mode Indicator** K will flash and the inside indicator will remain steadily lit.
- In Fast Search x8, the inside ◀◀ or ▶▶ **Playback Mode Indicator** K will flash and the outside indicator will remain steadily lit.

When playing a DVD disc, you may move forward or backward through the program being played in one of four speeds by pressing the **Slow-Play Buttons** 48 52 on the remote. Each press of the buttons will move to the next speed in the following order:

- In 1/16 Speed Slow mode, the ◀◀ and ▶▶ **Playback Mode Indicators** K will both flash.
- In the 1/8 Speed Slow mode, the inside ◀◀ and ▶▶ **Playback Mode Indicator** K will flash and the outside indicator will remain steadily lit.
- In the 1/4 Speed Slow mode, the outside ◀◀ or ▶▶ **Playback Mode Indicator** K will flash and the inside indicator will remain steadily lit.
- In the 1/2 Speed Slow mode, both the ◀◀ and ▶▶ **Playback Mode Indicators** K will remain steadily lit.

The frame-by-frame Step Advance function is available in either the forward or reverse direction by pressing the **Step+** 45 or **Step–** 49 button. The DVD600II will be placed in Pause mode, and will step up or down one frame at a time with each press of one of the Step Advance buttons.

Note that there will be no audio playback during slow-forward or -reverse play of DVD discs. This is normal for DVD, as A/V receivers and surround processors cannot process the digital audio streams during slow modes. Slow play is not available for CD discs.

- When a camera icon appears on the screen, this is your indication that there is multiple-angle information on the disc being played. To change the angle, press the **Angle Button** 41 until the desired angle view appears. An on-screen banner message will appear to indicate the angle view in use.

Using the DVD Disc's Menu

One of the unique features of the DVD system is that it offers a producer the opportunity to include a wide range of features on a disc, including multiple-language tracks; subtitles in a variety of languages; special information such as movie trailers and cast information; as well as other custom-tailored information. In addition, producers may divide a movie or program into chapters that allow for quick access to specific parts of the program. These chapters may be accompanied by thumbnail pictures of a scene from the specific chapter to help you select the desired spot on the disc.

When a disc is playing, press the **Menu Button** 26 to pause the playback and display the disc's menu. As there are no hard rules about style and content of DVD menus, the way they appear on the screen and the information they contain will vary from one disc to another. However, the following general rules apply to most menus:

- The first menu that appears is the Main Menu, and you may move through the options with the **▲/▼/◀/▶ Buttons** 25 31 27 29 as the disc's programming allows. The option selected will typically be highlighted in a certain color or inside an outline box.
- To select a highlighted option, which may either play a portion of the disc or move to a submenu, press the **Enter Button** 28 or **Play/Pause Button** 10D 58.

(continued)

Operating the DVD600II DVD Changer

- On some discs, when you select the DVD menu during the playback of a movie, the disc will return to the point in the program where the menu was selected by offering a "Play Movie" option. Press the **Enter Button** 28 or **Play/Pause Button** 10D 58 to resume play. However, not all discs offer this feature, and selecting the menu while playing a movie may mean that you will either have to go back to the beginning of the program or the start of a chapter. This feature is out of the control of the DVD600II, as it is set by the disc's internal programming.

- Some DVD discs also feature a Chapter Selection menu. Press the **Title Button** 24 to proceed directly to the disc's Chapter Selection option.

IMPORTANT NOTES ON DVD PLAYBACK

Due to the nature of this product category, DVD players, while being operated at elevated temperatures, may exhibit certain anomalies such as picture freeze-ups. If this occurs, the DVD600II needs to be "reset" by powering it down and up again, using its master On/Off switch. Should this occur with your DVD600II, first check your discs for any damage, scratches and fingerprints. If discs are OK, then ventilation around the DVD600II needs to be increased to ensure proper operation.

The DVD600II is capable of all the features and options covered by the DVD standards. However, it is up to the producer of a DVD disc to decide which of those features and functions are available on any given disc. For that reason, not all discs will function identically, and some discs will not have many of the features of the DVD system. For example, most current DVD discs do not take advantage of the multiple-angle feature. When the player displays the "Feature Prohibited" icon "Ø", this indicates that the disc has not been programmed for that feature.

In addition, it is common for the producers of DVD discs to block the use of certain functions during only some parts of a disc. For example, many discs prohibit the use of fast-play buttons or prohibit access to the Chapter Menu display during the playback of copyright notices, studio logos, movie credits or trailers. The appearance of the "Feature Prohibited" icon "Ø", or the inability of certain features to operate when the disc itself has prohibited them, does not indicate a problem with the DVD600II, as these features are outside of the unit's control.

Using the Menu Bar

The DVD600II is equipped with a powerful on-screen display system that serves the dual purpose of showing you the current status of the DVD600II while enabling quick and easy changes to settings and functions. Depending on whether a DVD or CD is in use, the menu will vary to display information that is specific to the type of disc in play.

Menus and Controls

When a disc is playing, press the **Status Button** 5 to view the status of the current disc and to change the setting for key playback functions (Figure 18).

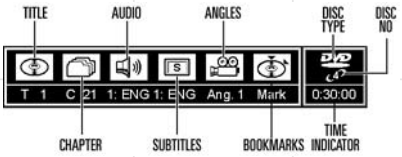


Figure 18

Title: The number shown indicates the number of the title that is currently playing.

Chapter: The number shown indicates the number of the chapter that is currently playing.

Audio: The number and abbreviation show the audio language soundtrack that is currently playing. Consult the DVD jacket for the key to available audio tracks on the disc.

Subtitles: The number and abbreviation show the subtitle language that is currently playing. Consult the DVD jacket for the key to available subtitle languages on the disc. A pound sign (#) displayed next to the language selection indicates that subtitles are active.

Angles: The number shown indicates the multiple-angle view that is currently playing.

Bookmarks: Highlight this area and press the **Enter Button** 28 to mark or go to previously bookmarked locations on a disc.

Disc Type: The type of disc playing (DVD or CD) is shown.

Disc Number: The slot number of the disc being played is shown.

Time Indicator: The elapsed time of the current title is shown.

Once the Menu Bar appears, press the ◀/▶ **Buttons** 27 29 to move across the display to select the desired option. When the option to be changed is highlighted in white with yellow brackets on both sides, press the **Enter Button** 28 to change the setting for that option.

Selecting Titles and Chapters

Some discs contain more than one title. Remember that a disc may contain one title or two separate program titles, or the disc may use the Title function to separate the special feature sections or audio tracks on the disc. The use of titles is optional with the producer of each DVD disc, as is the way in which he/she may choose to implement the feature. You may directly access any chapter while the disc is playing or in Pause mode simply by entering its number using the remote.

To change the title on those discs using the Menu Status Bar, follow these steps:

1. During disc playback, press the **Status Button** 5.

2. If needed, press the ◀/▶ **Buttons** 27 29 until the disc icon for the current title, with the letter "T" underneath it, is highlighted in white between yellow brackets.

3. Press the **Enter Button** 28.

4. Note that the number to the right of the "T" will be replaced with two dashes (– –).

5. Use the **Numeric Keys** 33–40 42 43 to enter the number of the title to be accessed.

6. The desired title will automatically be started.

Titles may also be selected during the playback of a DVD by pressing the **Title Button** 24. However, the action of the disc when pressing this button will vary from disc to disc. On occasion, pressing this button will take you to the disc's main menu while, in other cases, pressing this button will result in no action at all.

The movies or programs on most discs are divided into individual chapters, as selected by the disc's producer. Using the on-screen Menu Bar, you may view the number of the current chapter and move to any chapter on the disc.

To change the chapter using the Menu Status Bar, follow these steps:

1. During disc playback, press the **Status Button** 5.

2. Press the ◀/▶ **Buttons** 27 29 until the icon showing a disc and a file folder (second from left), with the letter "C" beneath it, is highlighted in white between yellow brackets.

3. Press the **Enter Button** 28.

4. Note that the number to the right of the "C"

Operating the DVD600II DVD Changer

will be replaced with two dashes (– –).

5. Using the **Numeric Keys** ㉝–㊵ ㊷ ㊸, enter the number of the chapter to be accessed.

6. The desired chapter will automatically be started.

You may also simply enter the chapter number while the disc is playing to skip to that chapter.

Changing Languages (Audio)

DVD discs may contain a variety of audio tracks, including foreign languages, special commentaries, descriptive video for the sight-impaired, and various digital formats. Some DVD-Audio discs that contain linear PCM or Dolby Digital 5.1 audio tracks may allow you to access these tracks using the Audio feature described in this section. In normal play, the unit will always look for the default setting for the audio track, but you may change the audio track at any time using the Menu Status Bar and following these steps:

1. During disc playback, press the **Status Button** ❺.

2. Press the **◀/▶ Buttons** ㉗ ㉙ until the speaker icon (third from the left) is highlighted in white between yellow brackets.

3. Press the **Enter Button** ㉘.

4. Note that the main Menu Bar will be replaced with a single display of the current language type (Figure 19).

Figure 19

5. Press the **Enter Button** ㉘ until the desired audio track is displayed. Note that the audio tracks available on a disc will vary and that they are always listed on the disc's jacket or cover.

6. Within a few seconds, the disc will continue play with the newly selected audio track.

Note that the audio track type selected in this fashion is temporary and will only remain in effect until the player is turned off. When the unit is turned on for subsequent play, the default audio type will always be used.

The audio track may also be selected during the playback of a DVD by pressing the **Audio Button** ⑳. After pressing the button, the audio track may be changed by pressing the **Enter Button** ㉘ until the desired audio track is shown. Note, however, that some discs do not allow audio track change while a disc is playing. When the **Audio Button** ⑳ is pressed on this type of disc, the player will go to the disc's own menu page for audio track selection. In this case, use the **◀/▶/▲/▼ Buttons** ㉕ ㉗ ㉙ ㉛ to make the selection from the menu screen and then press the **Enter Button** ㉘.

The functionality of the **Audio Button** ⑳ may vary from disc to disc. Many discs will allow you to change the playback language while the disc is playing, as noted earlier. However, when the **Audio Button** ⑳ is pressed with some discs, playback will stop and you will be taken to the disc's own audio menu. At that menu, use the **◀/▶/▲/▼ Buttons** ㉕ ㉗ ㉙ ㉛ to highlight the desired playback language. Press the **Enter Button** ㉘ when the choice is made and the disc will either resume playback or take you to the disc's main menu. Note that these functions are controlled by information programmed within the disc, and are outside of the control of the DVD600II.

DVD discs may contain a variety of subtitles. In normal play, the unit will always look for the default setting for the subtitle language, but you may change that language at any time using the Menu Status Bar and by following these steps:

1. During disc playback, press the **Status Button** ❺.

2. Press the **◀/▶ Buttons** ㉗ ㉙ until the letter "S" icon (fourth from the left) is highlighted in white between yellow brackets.

3. Press the **Enter Button** ㉘.

4. Note that the main Menu Bar will be replaced with a single display of the subtitle language (Figure 20).

Figure 20

5. Press the **Enter Button** ㉘ until the desired subtitle language is displayed. Note that the subtitles available on a disc will vary, and they are always listed on the disc's jacket or cover. Some discs may not offer alternative subtitles, or any subtitles at all.

6. Press the **Subtitle On/Off Button** ㊹ and the **Enter Button** ㉘ and within a few seconds the disc will continue to play with the newly selected subtitle language.

Note that the subtitle language selected in this fashion is temporary, and will remain in effect until the player is turned off. When the unit is turned on for subsequent play, the default subtitle language will always be used.

The subtitle language may also be selected during the playback of a DVD by pressing the **Subtitle Button** ㉚. After pressing the button, the language may be changed by pressing the **Enter Button** ㉘ until the desired choice is shown. Note, however, that some discs do not allow audio track change while the disc is playing. When the **Subtitle Button** ㉚ is pressed, the player will go to the disc's own menu page for subtitle disc selection. In this case, use the **◀/▶/▲/▼ Buttons** ㉕ ㉗ ㉙ ㉛ to make the selection from the menu screen and then press the **Enter Button** ㉘.

IMPORTANT NOTE: The steps indicated on the page allow you to change the subtitle language, but they do not determine whether the subtitles are actually displayed on the screen. To have the subtitles appear at any time, press the **Subtitle On/Off Button** ㊹ to toggle the subtitles on or off with each press of the button. When the subtitles are active, a check-mark icon "✔" will appear in the box to the right of the subtitle description as shown earlier.

Also note that some DVD discs do not contain subtitles. When the **Subtitle On/Off Button** ㊹ is pressed on a disc with no subtitles, the Prohibit icon "Ø" will appear on screen.

Changing Camera Angles

A special feature of the DVD format is its capability of showing more than one view, or camera angle, of the same scene. This feature enables you to become the director, selecting the view of a scene that you wish. Note, however, that this feature does not appear on many discs and, when it does appear, it will typically be for only certain scenes and not for the entire disc's program. If you attempt to use the multiple-angle feature on a disc that is not programmed for it, you may see the "Prohibited Feature" icon "Ø" on the screen. This is not a fault of the player; it simply indicates that the feature is not available on the disc being played.

To see whether a disc contains multiple angles, check the disc's cover or jacket. When a disc does contain scenes with multiple angles, the producers will usually include some sort of special on-screen icon to alert you to the availability of different angles of view. When you see such an icon, the angle may be changed by the following steps:

1. Press the **Status Button** ❺.

(continued)

Operating the DVD600II DVD Changer

2. Press the ◀/▶ **Buttons** 27 29 until the camera icon with the letters "Ang" below it (fifth from the left) is highlighted in white between yellow brackets.

3. Press the **Enter Button** 28.

4. Note that the main Menu Bar will be replaced with a single display of the angle number (Figure 21).

Figure 21

5. Press the **Enter Button** 28 until the desired angle is shown. Note that the number of angles available is set by the disc's producer, not the DVD600II, and it may vary from disc to disc.

You may also change the angle directly by pressing the **Angle Button** 41 when multiple angles are present, until the desired angle appears on the screen.

Playing CDs

The DVD600II allows you to take advantage of the on-screen Menu Bar even when playing CDs. The use of this graphical display makes it easy to select CD Functions.

When a CD is playing, the Menu Bar will automatically appear in your video display, even though there is no video on the CD itself. To remove the Menu Bar at any time, press the **Clear Button** 47. If the Menu Bar is not present, press the **Status Button** 5 to have it appear on the screen (Figure 22).

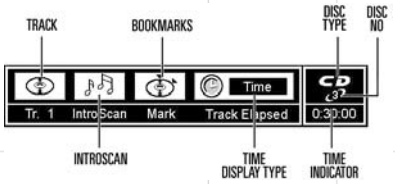


Figure 22

Track: The number shown indicates the number of the track that is currently playing.

IntroScan: When the IntroScan feature is active, the musical notes in this icon will change.

Bookmarks: Highlight this area and press enter to enter or go to bookmarked locations on a disc.

Time Display Type: This shows the type of time indication being shown: Time Remaining for the Current Track, Total Elapsed for the Disc, or Total Remaining for the Disc.

Disc Type: Shows the type of disc being played.

Disc Number: The slot number of the disc being played is shown.

Time Indicator: The time indication selected is shown.

Once the Menu Bar appears, press the ◀/▶ **Buttons** 27 29 to move across the display to select the desired option. When the option to be changed is highlighted, press the **Enter Button** 28 to change the setting for that option.

Selecting a Track

To select any track on a CD, follow these steps:

Enter the track number while the disc is playing or in Pause mode by entering its number, or:

1. During disc playback, press the **Status Button** 5 if the Menu Bar is not already on the screen.

2. If needed, press the ◀/▶ **Buttons** 27 29 until the disc icon with the letter "T" underneath it is highlighted in white between yellow brackets.

3. Press the **Enter Button** 28.

4. Note that the number to the right of the "T" will be replaced with two dashes (– –).

5. Using the **Numeric Keys** 33–40 42 43, enter the number of the track to be accessed.

6. The desired title will automatically be started.

Using IntroScan

The IntroScan feature allows you to sample the tracks on a CD by playing the first ten seconds of each track and then moving to the next track. To use IntroScan, follow these steps:

1. During disc playback, press the **Status Button** 5 if the Menu Bar is not already on the screen.

2. If needed, press the ◀/▶ **Buttons** 27 29 until the musical score icon with the phrase "IntroScan" underneath it (second from the left) is highlighted.

3. Press the **Enter Button** 28.

4. Note that the disc will immediately begin to play the first track on the disc and the musical notes in the icon will change and flash.

5. The unit will play the first ten seconds of each track on the disc, moving from one track to the next.

6. To play a track during IntroScan, press the **Play/Pause Button** 10D 53.

7. If no track is selected, the disc will stop playing when it has played the first ten seconds of each track in order.

Note that while the IntroScan feature is in use, the **Intro Indicator** F will appear in the **Information Display** 12D.

Time Display Selection

When playing CDs, the DVD600II is capable of displaying the time displays that you are familiar with from traditional CD-only players. The choice of a time display is made through the use of the on-screen Menu Bar, but any changes to the display will also change the Time Display mode for the Information Display.

To change the time display during CD playback, follow these steps:

1. During disc playback, press the **Status Button** 5 if the Menu Bar is not already on the screen.

2. If needed, press the ◀/▶ **Buttons** 27 29 until the clock icon with the word "Time" next to it is highlighted.

3. Press the **Enter Button** 28 to select one of these four choices. Each press of the button will select the next option:

- **Track Elapsed:** This shows the time that has elapsed for the current track. At the start of each track this display will reset to zero and begin to count up again.
- **Track Remain:** This shows the time remaining for the current track. At the start of each track the time will begin to count down again, starting with the total time of the track.
- **Disc Elapsed:** This shows the total time that the current disc has played for all tracks.
- **Disc Remain:** This shows the total time remaining for all tracks on the disc that have not yet been played.

Playing MP3 and Video CD Discs

The DVD600II is rare among DVD players in that it is able to play discs containing MP3 audio files. This means that you may enjoy the latest music, using discs created in your computer, through the high quality audio components in your home theater system. As the way that MP3 files are recorded on discs differs from the way conventional CD audio discs are structured, MP3 playback is somewhat different from standard CDs.

Operating the DVD600II DVD Changer

MP3 Disc Playback

When the DVD600II reads a disc and recognizes it as an MP3 disc, no **Disc Type Indicator** A will light; however, a listing of all the directories and tracks on the disc will appear on the video screen. (Figure 23). Note that the right side of the screen will initially be blank, as that is used for programming playlists for MP3 playback. The black box in the upper left corner of the screen will show the Play symbol while a track is playing, or the Play/Pause symbol when a track has been paused, or no symbol when the unit is in Stop mode. The box in the top center of the display will contain the file name of the currently selected track.

The second row of boxes will display, from left to right, an indication of whether the current mode is Standard Play, Random Play or Repeat Play; the track number currently playing, and the elapsed time of the current track.

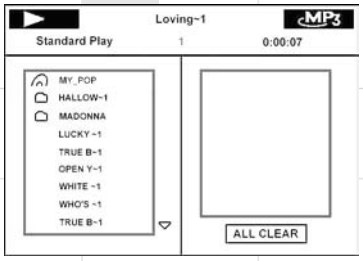


Figure 23

To play a track, press the ▲/▼ **Navigation Buttons** 25 31 until the desired track name is highlighted. If the list of tracks is longer than will fit on the screen, a ▲ or ▼ indicator will appear at the top or bottom of the track list to remind you that you may scroll through the list to see additional titles.

To begin playback, press the **Play/Pause Button** 10D 58 or the **Enter Button** 28.

During MP3 playback most of the standard CD/DVD playback controls operate in their normal fashion:

- You may skip forward to the next track on the disc by pressing the **Next Button** 64.
- You may skip back to the previous track on the disc by pressing the **Previous Button** 63.
- Press the **Pause Button** 62 to momentarily stop playback. Press it again to resume play.
- Press the **Enter Button** 28 to begin play, or to restart play of the current track from the beginning.

NOTES ON MP3 PLAYBACK

- The Fast Forward and Reverse Search modes are not available during MP3 playback.
- During MP3 playback the **Program Time Indicators** E will show the elapsed time of the track being played. Other time display options are not available with MP3 playback.
- The DVD600II is only compatible with standard MP3-encoded discs. Other compressed audio formats used for Internet audio downloads will not play on the DVD600II.
- Due to the differences in various versions of the MP3 format, and the many differences between the CD-R machines used to record MP3 discs on a computer, it is possible that some MP3 discs may not play on the DVD600II even though they will work on a computer. This is normal and does not indicate a fault with the unit.
- When a multisession disc with both standard CD audio and MP3 content is in use, the DVD600II will play only the CD audio sections of the disc.
- When an MP3 disc with multiple directories is playing, the DVD600II will search out all MP3 files on the disc and list them in the on-screen display in the order in which the directories are structured on the disc. Note that if the same title is used for tracks in different directories, this may result in the same title appearing more than once in the track listings.

Programmed Playback of MP3 Discs

The DVD600II is capable of creating playlists up to 130 tracks long with the MP3 files on a properly recorded disc. To create a playback list for MP3 titles, follow these steps:

Step 1: Load a compatible MP3 disc, but do not put it into play or stop play if it begins automatically.

Step 2: Press the **Program Button** 46 to open a playlist. The screen will change to Program Play Mode, as indicated in the upper left corner of Figure 24. The **Program Indicator** G will also light in the **Information Display** 12D.

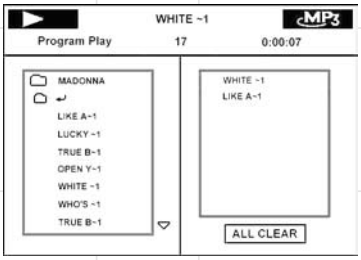


Figure 24

Step 3: Use the ▲/▼ **Navigation Buttons** 25 31 to highlight the first track to be placed in the list and press the **Enter Button** 28. Note that the track name will now appear on the right side of the screen.

Step 4: Repeat the step above until all desired tracks are added to the playlist.

Step 5: To remove a track from the playlist, first press the ◀/▶ **Navigation Buttons** 27 29 so that the highlight moves to the right side of the screen under the PROGRAM listing. Use the ▲/▼ **Navigation Buttons** 25 31 to highlight the track to be deleted and press the **Clear Button** 47.

Step 6: To clear all the tracks in the playlist and start over, press the ◀/▶ **Navigation Buttons** 27 29 until the ALL CLEAR box at the bottom of the right side of the screen is highlighted and press the **Enter Button** 28.

Step 7: To play the tracks on the list, press the **Play/Pause Button** 10D 58.

Once a playlist is created, it will remain available as long as the disc is not changed or the power turned off. You may play any track on the disc without erasing the playlist by pressing the ◀/▶ **Navigation Buttons** 27/29 to return the highlight bar to the left side of the screen

Repeat Playback of MP3 Discs

Repeat playback operation for MP3 discs differs somewhat from the steps used for repeat playback of standard DVD discs. Press the **Repeat Button** 55 to cycle through the following options, which will be displayed on the screen: Repeat All Discs, Repeat 1 Disc, Repeat 1 Folder, Repeat Track, Standard Play The **Repeat Indicators** H will also light to reflect the current mode. The Repeat A–B function is not available for MP3 discs.

For Random Play of the files on the MP3 disc, press the **Random Button** 50 to toggle between Random Play and Standard Play, as displayed on the screen.

VCD Playback

VCD is a format that predates DVD which is based on a different compression format than DVD and a recording method that is similar to CDs. Although the DVD has, for the most part, replaced VCD as a format, the DVD600II offers VCD playback so that you may play your existing library of VCD discs.

(continued)

Operating the DVD600II DVD Changer

There are two versions of the VCD format: an early version which is simply called “VCD” and a later version with Playback Control which is called “Version 2.0” or “PBC”. The DVD600II is compatible with both forms of VCD, although playback will vary according to which version is used and the specific way in which the disc was created.

However, the DVD600II is not capable of playing SVCD (Super Video CD) discs. Also, do not confuse the Video CD format with the photo CDs that you may receive when developing a roll of film. Photo CDs may not be viewed using the DVD600II.

Even though VCD discs provide video, since the format is based on CD technology, the playback functions for a VCD disc operate very closely to those for CD. To play a VCD disc, place it in the DVD600II as you would any other CD or DVD disc. After the unit takes a few seconds to read the disc’s contents the VCD segment of the **Disc Type Indicators** A will light and the disc will begin playing. If the disc has been created under VCD Version 2.0, or if it otherwise allows Playback Control functionality, the letters PBC will appear in the **Title/Track Indicators** C D. However, keep in mind that the exact level of functionality for any VCD will vary widely and it is ultimately determined by the way the disc was created, not by the DVD600II.

When playing VCD discs, most standard DVD/CD playback controls function as normal, including Play, Stop, Pause, Forward or Reverse Slow Play, and Fast Forward or Reverse Search (x2, 4x and 8x speeds). The indications for fast play in either direction work as described for CD playback.

Using the On-Screen Status Bar for VCD Playback

When playing many VCD discs, it is possible to access the disc’s features using the on screen menu bar in the same manner as shown for CD playback. Note, however, that the while the IntroScan icons will appear in the menu bar, the IntroScan feature is not available for VCD discs.

Use of other functions will vary according to the disc type. With some VCD discs, you may select a track using the Track function on the menu bar. If the menu bar is not visible on the screen press the **Status Button** 5 to recall it to the screen. Note that when PBC appears under the disc icon in the far left position of the menu bar it is not possible to change track numbers directly.

Depending on the disc’s functionality, some VCD discs allow the time display to be changed in the same manner as described for CD discs.

Playback Control

VCD discs made under the Revision 2.0 specification will usually offer PBC, or playback control. With PBC many discs include chapter selection menus that are similar to those found on DVDs. However, on VCD discs the menus are recalled and controlled differently than on DVD discs.

- To view the menu options on a PBC disc, press the **Next** 64 or **Previous** 63 buttons on the remote or the **Skip Forward/ Reverse Buttons** 8D on the front panel.
- Once the menu options appear on the screen, make your selection by pressing the **Numeric Button** 33 - 40 42 43 that corresponds to your desired choice. The desired selection will begin playingautomatically.

Note that the Menu Button used during DVD playback is not used for VCD playback.

Troubleshooting the DCR600II and DVD600II

SYMPTOM	PROBABLE CAUSE	SOLUTION
DCR600II does not function when Main Power Switch is pushed	• No AC Power	• Make certain AC power cord is plugged into a live outlet. • Check to see whether outlet is switch-controlled.
DVD600II does not turn on	• Main Power Switch turned off • No AC power	• Press in Main Power Switch. • Check AC power plug and make certain any switched outlet is turned on.
Display lights, but no sound	• Intermittent input connections • **Mute** is on • Volume control is down	• Make certain that all input and speaker connections are secure. • Press **Mute Button** ❸. • Turn up volume control.
Unit turns on, but front panel display does not light up	• Display brightness is turned off	• Follow the instructions in the Display Brightness section so that the display is set to VFD FULL.
No sound from any speaker; light around power switch is red	• Amplifier is in Protection mode due to possible short • Amplifier is in Protection mode due to internal problems	• Check speaker wire connections for shorts at receiver and speaker ends. • Contact your local JBL service center.
No sound from any speaker	• No audio signal is being transmitted to the speakers • If in DVD mode, make sure that analog input is not accidentally assigned • Intermittent connections • Incorrect digital audio selection • DVD disc is in Fast or Slow mode	• Check that DCR600II is on and a source is playing. • Check all wires and connections between the DCR600II and speakers. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured. • Review proper operation of the DCR600II. • Check Input assignment for DVD Input. DVD Input should be set to COAX 1 and the DVD600II Digital Output should be connected to **Coaxial 1 Digital Input** ❷ on the DCR600II. • Check all audio connections. • Check digital audio settings. • There is no audio playback on DVD discs during Fast or Slow modes.

Troubleshooting DCR600II and DVD600II (Cont'd)

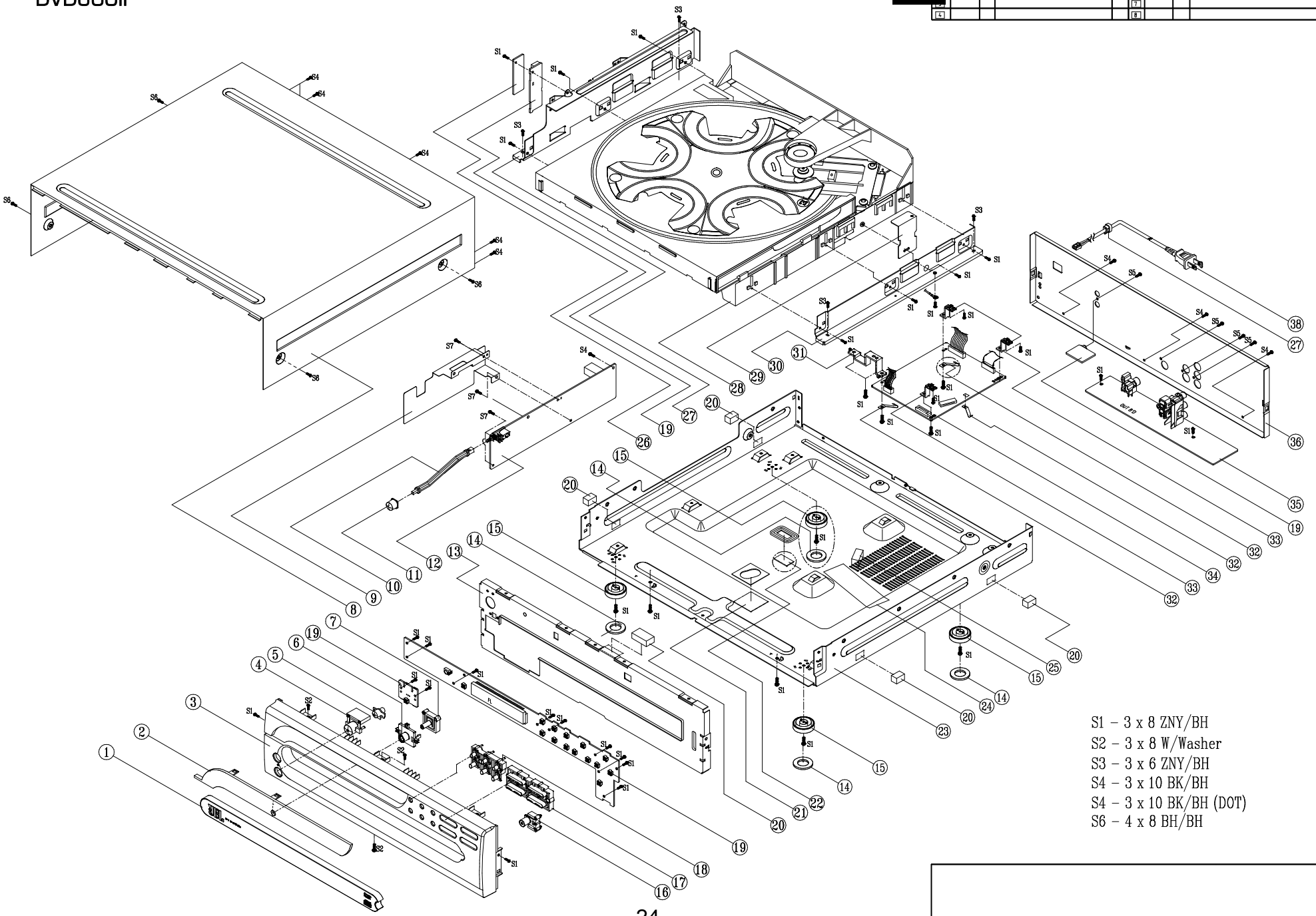
No sound from one speaker	• No audio signal is being transmitted to the speakers	• Check all wires and connections between the DCR600II and speakers. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured. • In Dolby Digital or DTS modes, make sure that the DCR600II is configured so that the speaker in question is enabled.
No sound from surround or center speakers	• Incorrect surround mode	• Select a mode other than Stereo. • Make sure the movie or TV show you are watching is recorded in a surround sound mode. If it is not, try using another surround mode.
	• Input is monaural • Stereo or Mono program material	• There is no surround information from mono sources. • The surround decoder may not create center- or rear-channel information from nonencoded programs. • Review the operation of your DVD player and the jacket of your DVD to make sure that the DVD features the desired Dolby Digital or DTS mode, and that you have properly selected that mode using both the DVD player's menu and the DVD disc's menu.
	• No audio signal is being transmitted to the speaker	• Check all wires and connections between the DCR600II and speaker. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured.
	• Incorrect configuration	• If the DCR600II is set in Dolby Pro Logic II mode, make sure the center speaker is not in Phantom mode. • If the DCR600II is set in Dolby Digital or DTS mode, make sure it is configured so that the center speaker is enabled. • In Dolby Digital or DTS modes, make sure the DCR600II is configured so that the surround speakers are enabled. • Check all wires and connections between the DCR600II and speakers. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured.
System plays at low volume but shuts off as volume is increased	• Speaker impedances are dropping too low for receiver to handle	• Check all wires and connections between the DCR600II and speakers. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured. • Do not use more than one pair of main speakers.
Low (or no) bass output	• Speakers are connected out of phase	• Make sure the connections to the left and right Speaker Inputs have the correct polarity (+ and –).
	• Subwoofer output of DCR600II not enabled	• In Dolby Digital or DTS modes, make sure the DCR600II is configured so that the subwoofer and LFE output is enabled.
Unit does not respond to remote commands	• Weak batteries in remote • Wrong device selected • Remote sensor is obscured	• Change remote batteries. • Press the **Main** 8 or **DVD** 4 selector. • Make certain front panel sensor is visible to remote or connect remote sensor.
Intermittent buzzing in tuner	• Local interference	• Move unit or antenna away from computers, fluorescent lights, motors or other electrical appliances.
Letters flash in the channel indicator display and digital audio stops	• Digital audio feed paused	• Resume play for DVD. • Check that Digital Input is selected.

(continued)

Troubleshooting DCR600II and DVD600II (Cont'd)

Disc does not play	• Disc loaded improperly • Incorrect disc type • Invalid Region Code • Rating is above parental preset • Wrong source for CD was selected	• Load disc label-side up. • Check to see that disc is CD, CD-R, CD-RW, DVD-Movie, MP3 or Video CD; other types will not play. • Use Region 1 disc only. • Enter password to override or change rating settings. • If you are playing a CD in the DVD600II, you must select the DVD source on the DCR600II, not the CD source.
No picture	• Intermittent connections • Wrong input • Different types of video connections in use	• Check all video connections. • Check input selection of TV or DCR600II. • You may not mix video connection types. If you use S-Video connections from the DVD600IIto the DCR600II, you must also use the S-Video input on your television. If you use the composite video connections from the DVD600II to the DCR600II, you must also use the composite video input on your television.
Picture is distorted or jumps during Fast Forward or Reverse Play	• MPEG-2 decoding	• It is a normal artifact of DVD playback for pictures to jump or show some distortion during rapid play.
Picture jumps or freezes during normal play	• Unit may be overheating	• Due to the nature of this product category, DVD players, while being operated at elevated temperatures, may exhibit certain anomalies such as picture freeze-ups. If this occurs, the DVD600II needs to be “reset” by powering it down and up again, using its master On/Off switch. Should this occur with your DVD600II, first check your discs for any damage, scratches, and fingerprints. If discs are OK, then ventilation around the DVD600II needs to be increased to ensure proper operation.
Some remote buttons do not operate during DVD play	• Function not available for this disc	• Some discs do not include all DVD features.
The menu is in a foreign language	• Incorrect menu language	• Change menu language selection.
“Ø” symbol appears	• Requested function not available at this time	• Certain functions may be disabled during passages of a disc.
Picture is displayed in the wrong aspect ratio	• Incorrect match of aspect ratio settings to disc	• Change Aspect Ratio settings.
Disc will not copy to VCR	• Macrovision protection	• Most DVDs are encoded with Macrovision to prevent copying to VCR.

DVD600II


S1 - 3 x 8 ZNY/BH
S2 - 3 x 8 W/Washer
S3 - 3 x 6 ZNY/BH
S4 - 3 x 10 BK/BH
S4 - 3 x 10 BK/BH (DOT)
S6 - 4 x 8 BH/BH

DVD600II EXPLODED VIEW PARTS LIST

Ref#	Part Number	Qty		
1	55190130	1.0	PC	AC DEC DOOR TRAY DVD600II --
2	55190150	1.0	PC	AC DEC CRYSTAL WINDOW DISPLAY DVD600II
3	55190040	1.0	PC	AC DEC CABINET PANEL FRONT DVD600II
4	55192630	1.0	PC	AC DEC BUTTON STAND-BY JBL --
5	55192640	1.0	PC	AC MLD BUTTON INDICATOR STAND-BY DCR600MK2 --
6	55190080	1.0	PC	AC DEC BUTTON CAP DIMMER DVD600II --
7	55190090	1.0	PC	AC DEC BUTTON DIMMER DVD600II --
8	55190170	1.0	PC	AC PUN COVER TOP DVD600II METAL BK
9	55202510	1.0	PC	AC PUN SHIELD COVER SMPS EU DV505
10	55190140	1.0	PC	AC MLD BUTTON SHAFT POWER SW DVD600II --
11	55190100	1.0	PC	AC DEC BUTTON POWER DVD600II --
12	55184690	1.0	PC	AD ASY SMPS MODULE DV-C503
13	55186630	1.0	PC	AC CPL CABINET CHASSIS FRONT DV505
14	55174760	4.0	PC	AC FOOT RUBBER ROUND 3.0MM 25.0MM JIS 60 Y DIA
15	55190220	4.0	PC	AC FOOT ASSY DCR600 ROUND 15.8MM 50MM
16	55190070	1.0	PC	AC DEC BUTTON OPEN/CLOSE DVD600II --
17	55190050	1.0	PC	AC DEC BUTTON PLAY DVD600II --
18	55190060	1.0	PC	AC DEC BUTTON DISC DVD600II --
19	55190320	1.0	PC	AC EMBD IMA FRONT BD DVD600II
20	55174550	5.0	PC	AC RAW SHIELD GASKET 1 12X8X20
21	55405550	1.0	PC	AC PUN SHIELD COVER AS DV6050
22	55190690	1.0	PC	AC PUN SHIELD COVER DOWN LOAD DV505
23	55491610	1.0	PC	AC CPL CABINET CHASSIS MAIN DVD-600II
24	55190770	1.0	PC	AC FELT 38X120X0.3T BK NON-METAL
25	55196510	1.0	PC	AC SUPPORT 15*30*16 DV505 -- RU
26	55190680	1.0	PC	AC PUN SHIELD COVER CNT BD DV505
27	5518667A	1.0	PC	AC PUN BRACKET FRAME MECHA L02 --
28	55186040	1.0	PC	AC MSA ASY CDM5F(TVK15-1AA/502T)
29	55174610	1.0	PC	AC PUN BRACKET MECHA RIGHT GE5805P --
30	55186680	1.0	PC	AC PUN BRACKET FRAME MECHA R02 --
31	55190160	1.0	PC	AC PUN BRACKET BKT GROUND DV505 --
32	55178960	5.0	PC	AC SPRING PLATE SPRING GND C5212 0.2T AVR520
33	55186640	3.0	PC	AC PUN BRACKET MAIN PCB DV505 --
34	55190330	1.0	PC	AC EMBD IMA MAIN BD DVD600II
35	55190340	1.0	PC	AC EMBD IMA OUT BD DVD600II
36	55190180	1.0	PC	AC CPL REAR PANEL DVD600II
37	55125180	1.0	PC	AC MLD CLAMP AC CORD RT2280/RT2250(PAV5007/PAV5005)
38	55011170	1.0	PC	WIRE-MCRDM 0.75MM2 1830MM BK
S1	55164800	46.0	PC	SCREW 3MM 8MM DIN963 62 2182 B7
S2	55127120	3.0	PC	SCREW-ST 3MM 8MM JIS B 1122 53 0 0
S3	55049000	4.0	PC	SCREW-ST 3MM 06MM JIS B 1122 03 0 0
S4	55127070	9.0	PC	SCREW-ST 3MM 10MM JIS B 1122 25 0 0
S5	55135460	4.0	PC	SCREW-SPEC 3MM 10MM JIS 27 0 0
S6	55127090	4.0	PC	SCREW-ST 4MM 8MM JIS B 1122 25 0 0

Service Bulletin

Service Bulletin JBL2002-01 Rev1 - September 2005 This is considered a Minor repair

To: All JBL Service Centers

Model: DVD600II

Subject: Will Not Play Enhanced CD's or Some DVD Titles

Definition, Enhanced CD's: A special audio Compact Disc, when placed in a CD or DVD player, offers a multimedia experience. Enhanced CDs are compatible with audio CD players, DVD players, and properly configured computer CD-ROM drives. They may include video clips, still pictures, interviews, discographies, lyrics and other information, in addition to the recorded music.

In the event you receive a DVD600II DVD player with the complaint: "The unit will not play an Enhanced CD, or a certain DVD title" – the unit may exhibit one or more of the following symptoms: *The counter freezes in the display, all you hear is a repeating skipping sound or intermittent noise coming from the receiver, display goes to the last track, or navigation features do not work,* follow the instructions below:

1) For Enhanced CD: Verify that the CD causing the problem is an enhanced CD; it should be labeled as "Enhanced CD". If it's *not* an enhanced CD, problems will *not* be corrected by this software upgrade (Version 1.11 to 1.13). Verify that the unit will play regular music CD's successfully.

2) Verify the serial number range of the DVD600II (see below). If the unit falls into the affected serial number range, it is a candidate for the software upgrade. Additionally, the software version can be checked by following the simple procedure on page 2.

3) For additional information and current resources available to perform upgrades, please contact:

Harman Service Technical Support
Phone: 516-682-6435
E-mail: techsupport@harman.com

Model	Serial Number 120V	STATUS	ACTION
DVD600II	TH0055-01000 to TH0055-15602	Will not play enhanced CD's and some DVD titles Version 1.11	Software upgrade needed to play Enhanced CD's and all DVD titles
DVD600II	TH0055-15603 to TH0055-18471	Will not play some DVD titles Version 1.12	Software upgrade needed to play all DVD titles
DVD600II	TH0055-18472 And above	Modified by factory Version 1.13	NONE REQUIRED

Version Check DVD600II

With the DVD600II in Stand By mode, (no display, Orange indicator ON):
Press BACK SEARCH and FORWARD SKIP buttons on the front panel simultaneously for at least 2 seconds and then release them. In the display: Chapter Display will indicate the revision, e.g. current Rev 1.13 will be indicated as 113. Minutes will indicate the month when it was upgraded and seconds will indicate the day. Press the Power button once to restore the display to normal.

DVD600II Upgrade Procedure

The following files are included in the floppy disc:
DVD_LINK.EXE
600MK113.BIN

Upgrade from the Floppy Disc:

Go to DOS prompt from Windows.
Insert the floppy disc. Change the directory to locate the 3 ½" floppy disc drive.
At the A: prompt (or whatever designator your 3 ½" floppy disc drive is), type: **dvd_link 600mk113.bin**
Be sure to leave a space between "link" and "600".

Or, Upgrade from your computer's Hard Drive:

Create a new subdirectory and copy the two files above to a new subdirectory you will name.
Once the files are copied there, on your hard drive:
Go to DOS prompt from Windows. Change the directory to locate the new subdirectory you have named, with the files in it – for this example, calling it C:\DVDUPGRADE. Type: **dvd_link 600mk113.bin**
Be sure to leave a space between "link" and "600".

INSTRUCTIONS

1) Plug the unconnected end of the gray parallel port cable, connected to the Upgrade Interface PCB, into your computer LPT1 port (unplug printer or any other cable already connected there, if necessary). Computer must be configured so it is recognizing the LPT1 port. (or LPT2 port if you choose)
2) Remove any CD/DVD/VCD discs that may be in the DVD600II.
3) Unplug the AC power cord from the Unit Under Test; the MAIN AC POWER SWITCH should be pressed until it pops out from the front panel, so that the word "OFF" may be read at the top of the switch (top button on the left side – not the button marked POWER).
4) Turn the unit on it's side so the bottom panel faces you; slightly off-center is a rectangular access hole covered by a black ¾ x 1 ¼" cover; remove the cover. Inside is a female ribbon cable connector.
5) Carefully plug the male 15-conductor cable from the Upgrade Interface PCB into this connector. IMPORTANT: Assure the bare (uninsulated) side of the cable end faces the front of the unit.
6) Plug in the AC power cord; depress the MAIN AC POWER SWITCH ONLY (top button – not the button marked POWER). Do not press any other buttons or controls. Orange Power indicator should be ON.
7) The red LED on the Interface PCB should be ON.
8) **Follow one of the two methods mentioned above to load the software. Hit Enter on your computer keyboard.**
9) You should get a prompt: "Do you want to program Flash Memory ?" Press "Y" for Yes.
10) Upgrade process should begin. You will see more prompts, but no other action is necessary; there will be a number counting up on-screen. LED's on the Upgrade Interface PCB should blink Red & Green alternately. The process should take about two minutes.
11) The upgrade is complete when the DOS prompt: "Complete !" or "DVD5link" is displayed.
12) Turn the MAIN AC POWER SWITCH off; unplug the ribbon cable, and replace the black cover. Set the unit back level, flat on its feet.
13) Test the unit by playing an Enhanced CD disc or the problem DVD (if available).

Service Bulletin

Service Bulletin JBL2003-01 Rev1 - June 2003 | This is considered a Minor repair

To: All JBL Service Centers

Model: DVD600II (Cinema ProPack ™ 600II system)

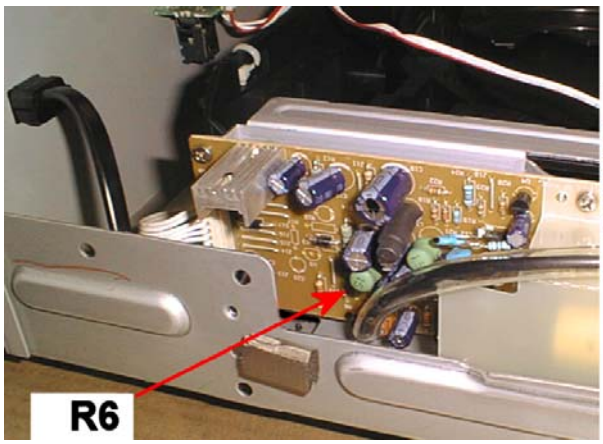
Subject: Unit Says In Standby Mode

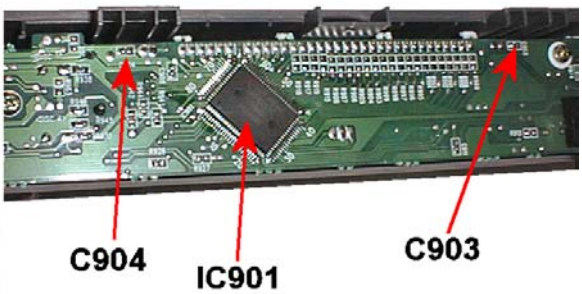
In the event you receive a DVD600II DVD player with the complaint: "The unit stays in standby mode (amber indicator), and will not switch ON, either with the remote control or the front panel button", check the following components and follow the instructions below:

Synopsis:
In the Front panel PCB:
IC901 microprocessor - check solder connections to all 80 pins – resolder if necessary
C903, C904 0.1uF 50V SMD capacitors – check and replace.

In the Power supply PCB:
R6 120Ω 1/8 watt resistor – check and replace if necessary.

1) Remove (8) screws holding the top cover on; remove the cover.
2) In the Power supply PCB, check and replace R6, 120Ω 1/8 watt resistor, with JBL part# 299-120. You may be able to cut the defective resistor off the PCB and re-solder the new part on without removing the power supply PCB.
3) Remove the five plated screws holding the front panel to the chassis (one is on the bottom)
4) Unplug the single 5-pin Molex plug to CN906 (near the power switch) to allow the front panel to be disengaged from the chassis; cut and remove any cables ties, but note their location.
5) Remove the front panel from the unit; there are four tabs/catches that must be freed as the panel is removed; two are on the sides and two are on the bottom.
6) Once the rear of the front panel PCB is exposed, locate IC901 microprocessor - check solder connections to all 80 pins and resolder if required.
7) Locate C903, C904; 0.1uF 50V SMD capacitors; check and replace with JBL part# 2026729091.
8) Replace any cable ties that were cut; reassemble and test unit.





Model	Serial number (120v)	Serial number (230v)	Status	Action
DVD600II	All Serial numbers affected	All Serial numbers affected	May need modification if unit exhibits symptom	Check solder connections to IC901 Check and replace C903,C904 and R6

Service Bulletin

Service Bulletin JBL2003-07 - June 2003 | This is considered a Minor repair

To: All JBL Service Centers

Model: DVD600II (Cinema ProPack™ 600II system)

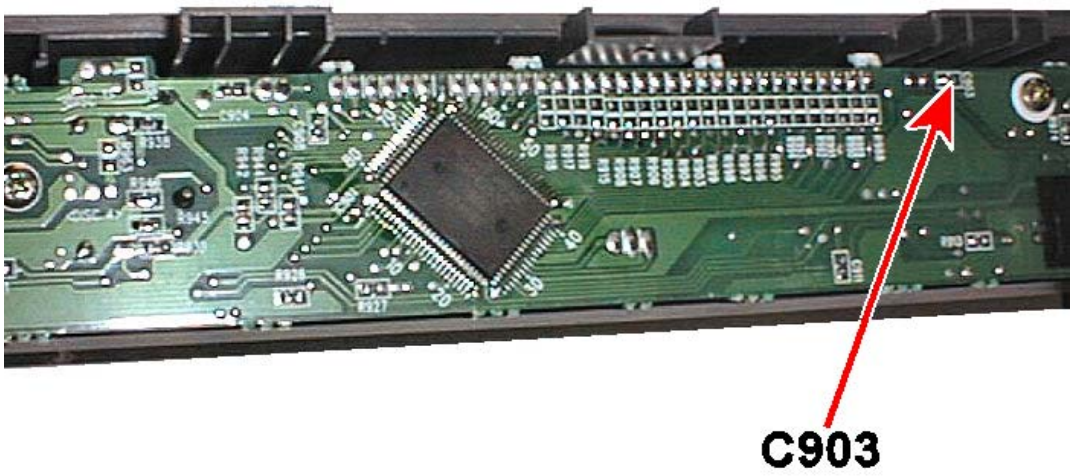
Subject: Dim Display

In the event you receive a DVD600II player with the complaint: "the display is too dim", follow the instructions below:

The DVD600II has a dimming feature that may be ON; this should be checked first. On the front panel, left of the display, is the dimmer button. With the unit ON, press the button repeatedly and cycle through these stages in the following order: FULL BRIGHTNESS⇨HALF BRIGHTNESS⇨OFF⇨FULL BRIGHTNESS.

If the FULL BRIGHTNESS setting is still dim,
In the Front panel PCB, replace C903 (0.1uF 50V SMD capacitor).

1) Remove (8) screws holding the top cover on; remove the cover.
2) Remove the five plated screws holding the front panel to the chassis (one is on the bottom)
3) Unplug the single 5-pin Molex plug to CN906 (near the power switch) to allow the front panel to be disengaged from the chassis; cut and remove any cables ties, but note their location.
4) Remove the front panel from the unit; there are four tabs/catches that must be freed as the panel is removed; two are on the sides and two are on the bottom.
5) Once the rear of the front panel PCB is exposed, locate C903, 0.1uF 50V SMD capacitor. Replace with JBL part# 2026729091.
6) Replace any cable ties that were cut; reassemble and test the unit.



Model	Serial number (120v)	Serial number (230v)	Status	Action
DVD600II	All Serial numbers affected	All Serial numbers affected	Dim Display	Replace C903

TECH TIPS

Troubleshooting tips and solutions to common service problems

For models: DVD600II (from the Cinema ProPack 600II System) **TIP# JBLTT2003-03**

Subject: Opening Tray Without Power

In the event you receive a DVD600II without power, and you have a need to open the tray manually:

On the bottom panel there is a 1 3/8” opening* covered by a black square plastic dust cover. Carefully, with a sharp tool, peel it away from the opening and remove it. By inserting your finger in the opening, you can feel the edge of a gear. With your fingernail, it is an easy matter to rotate the gear in the proper direction; the tray will start to extract from the unit. If the top cover has been removed, once the tray is in motion, you can push the tray out further from the back of the tray.

Replace the dust cover after you are finished servicing the unit.

* (NOTE: there are two – the correct one is the one with a square shape, closer to the front of the unit – Not the rectangular one)

DVD6001I-BLOCK DIAGRAM

NO	DATE	POS.	CONTENTS	NO	DATE	POS.	CONTENTS

DVD6001I

FL 901 (DISPLAY HNV-11SM07 SAMSUNG)

IC901

+5VS
FL AC
FL AC
-27V

IR_REMOCON
+5V6S
VFD_STB
VFD_DATA_IN
VFD_DATA_OUT
VFD_CLK
POWER_CTL

X901
RESONATOR
(RESONATOR 10M0 HZ 25.0 OHM 0F)

F-OE(DRAM_OE)
F-CE

IC401
FLASH MEMORY
8MBIT
SST39VF800A-90

ADDR*
F-WE
F-RESET
F-DE
DATA*

IC301
SDRAM-64MBIT
HY57V65620BTC-8 125MHz 64M

DATA*
RDNOTWR
D-RAS0-
ADDR*
D-CAS0-
D-CAS1-

F-OE(DRAM_OE)

~AC CORD

SMPS
(TO# 55184690XX)
AC MSA ASY SMPS MODULE DV-C503

+12V_ANALOG_VCC
+8V_ANALOG_VCC
-8V_ANALOG_VCC
+5V_DIGITAL_VCC
+3.3V_DIGITAL_VCC
+8V_MOTOR_VCC
+12V_MOTOR_VCC
5V_FRONT

IC201
STI5519
MPEG VIDEO DECODER

AUDIO-MUTE

CVBS-OUT → TR BUFFER & B.N.F. → CVBS-OUT → CVBS-VIDEO
Y-OUT → TR BUFFER & B.N.F. → Y-OUT
C-OUT → TR BUFFER & B.N.F. → C-OUT → S-VIDEO
R(Cr)-OUT → TR BUFFER & B.N.F. → R(Cr)-OUT
B(Cb)-OUT → TR BUFFER & B.N.F. → B(Cb)-OUT
G(Y)-OUT → TR BUFFER & B.N.F. → G(Y)-OUT

JK804
RCA_3V
6 Cr
7 Cb
8 Y
9
10 GND

SPDIF → BUFFER → COAXIAL

VIDEO-MUTE

PIXCLK-27MHZ
IC501
74HCU04

X501
(FILQZ 27M0 HZ +15 PPM 50.0 OHM FUNDAMENTAL 16P5 F)

TVM MECHA
F/E & MECHA
(TO# 10733290XX)

EXT-PSTART/ERROR
EXIT-DATAVALID
EXIT-DATA
EXIT-BCLK
+3V3-RESET
IRQ2
F/E SCL
F/E SDATA
+3.3V_DIGITAL_VCC
+5V_DIGITAL_VCC
+12V_MOTOR_VCC

SLIDER-OPEN/CLOSE(POWER-POSITION-P1)
SLIDER-IN(DRAWER-CCW-CTRL)
SLIDER-OUT(DRAWER-CW-CTRL)

SDA
SCL
EEPROM
M24C02
IC202

FILENAME	CODE NO. 55191190XX			SHEET /
MODEL DVD6001I	DESIGN	CHKD	CHKD	APPROVAL
DESIGN DATE 18/SEP/2001				

SONY CXP82316/82320/82324

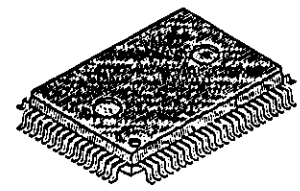
CMOS 8-bit 1-chip Microcomputer

Description

The CXP82316/82320/82324 microcomputer is composed of a CPU, ROM and RAM, and I/O ports. These chips feature many other high-performance circuits in a single-chip CMOS design, including an A/D converter, serial interface, timer/counter, time-base timer, capture timer/counter, fluorescent display controller/driver, remote control receiver.

This device also includes a power-on reset function and sleep/stop functions which can be used to achieve low power consumption.

80 pin QFP (Plastic)



Features

- Instruction set which supports a wide array of data types
  - — 213 types of instructions which include 16-bit calculations, multiplication and division arithmetic, and boolean bit operations.
- Minimum instruction cycle — 400ns for 10MHz operation
- On-chip ROM — 16K bytes (CXP82316)
  20K bytes (CXP82320)
  24K bytes (CXP82324)
- On-chip RAM — 704 bytes (Including fluorescent display data area)
- Peripheral functions:
  - — A/D converter — 8-bit, 8-channel, successive approximation system (conversion rate 32 µs/10MHz)
  - — Serial interface — On-chip 8-bit, 8-stage FIFO (1 to 8 bytes auto transfer) 1 channel
    8-bit clock synchronized 1 channel
  - — Timers — 8-bit timer
    8-bit timer/counter
    19-bit time-base timer
    16-bit capture timer/counter
  - — Fluorescent display controller/driver
    Maximum of 336 segment display available
    1 to 16 digits dynamic display
    Dimmer function
    High tension proof output (40V)
    On-chip pull-down resistor (Mask option)
  - — Remote control receiver circuit — On-chip noise elimination circuit
    On-chip 6 stage FIFO 8-bit pulse measurement counter
- Interrupts — 14 factors, 15 vectors multi-interruption possible
- Standby mode — SLEEP/STOP
- Package — 80-pin plastic QFP
- Piggyback/evaluator — CXP82300 80 pin ceramic QFP

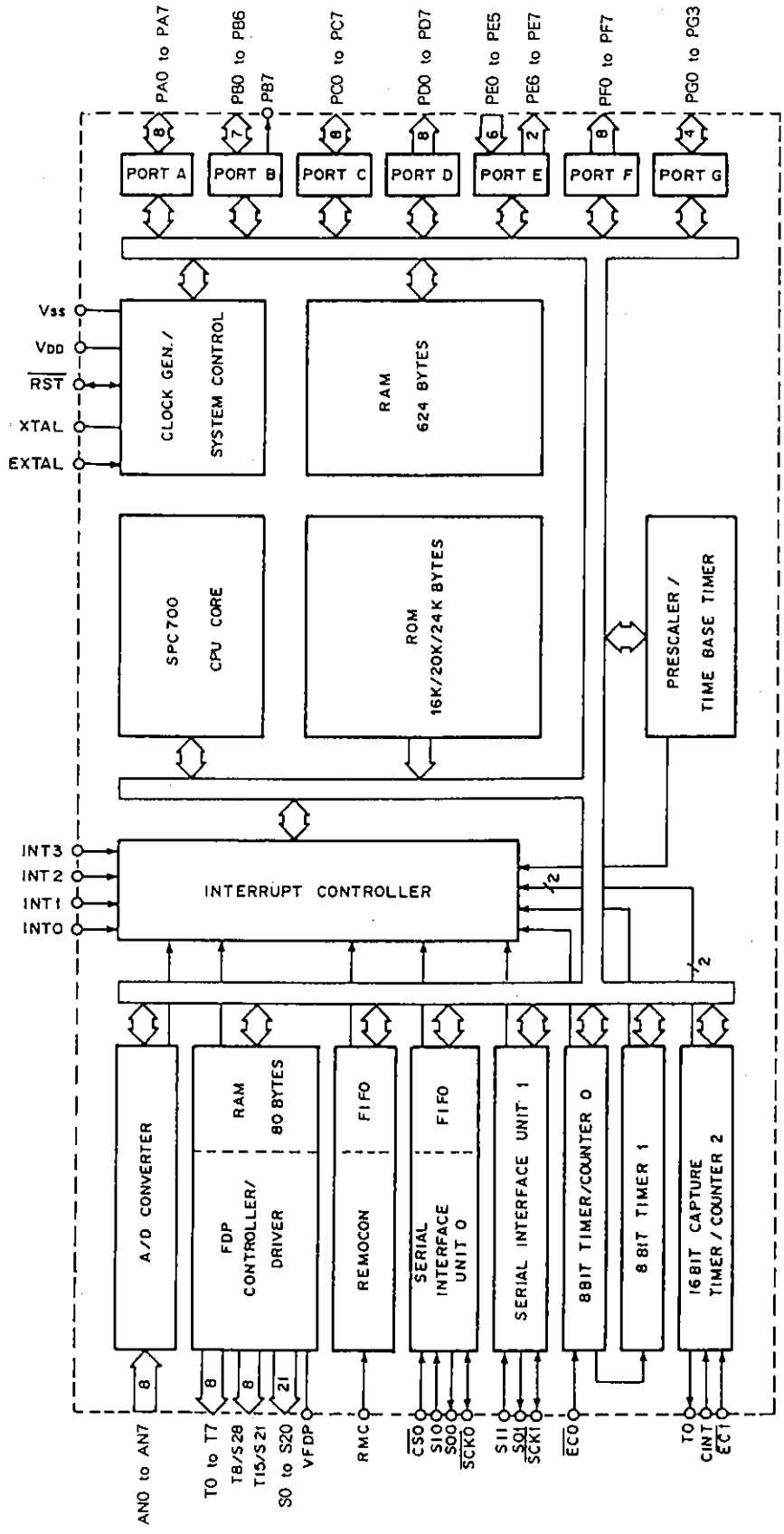
Structure

Silicon gate CMOS IC

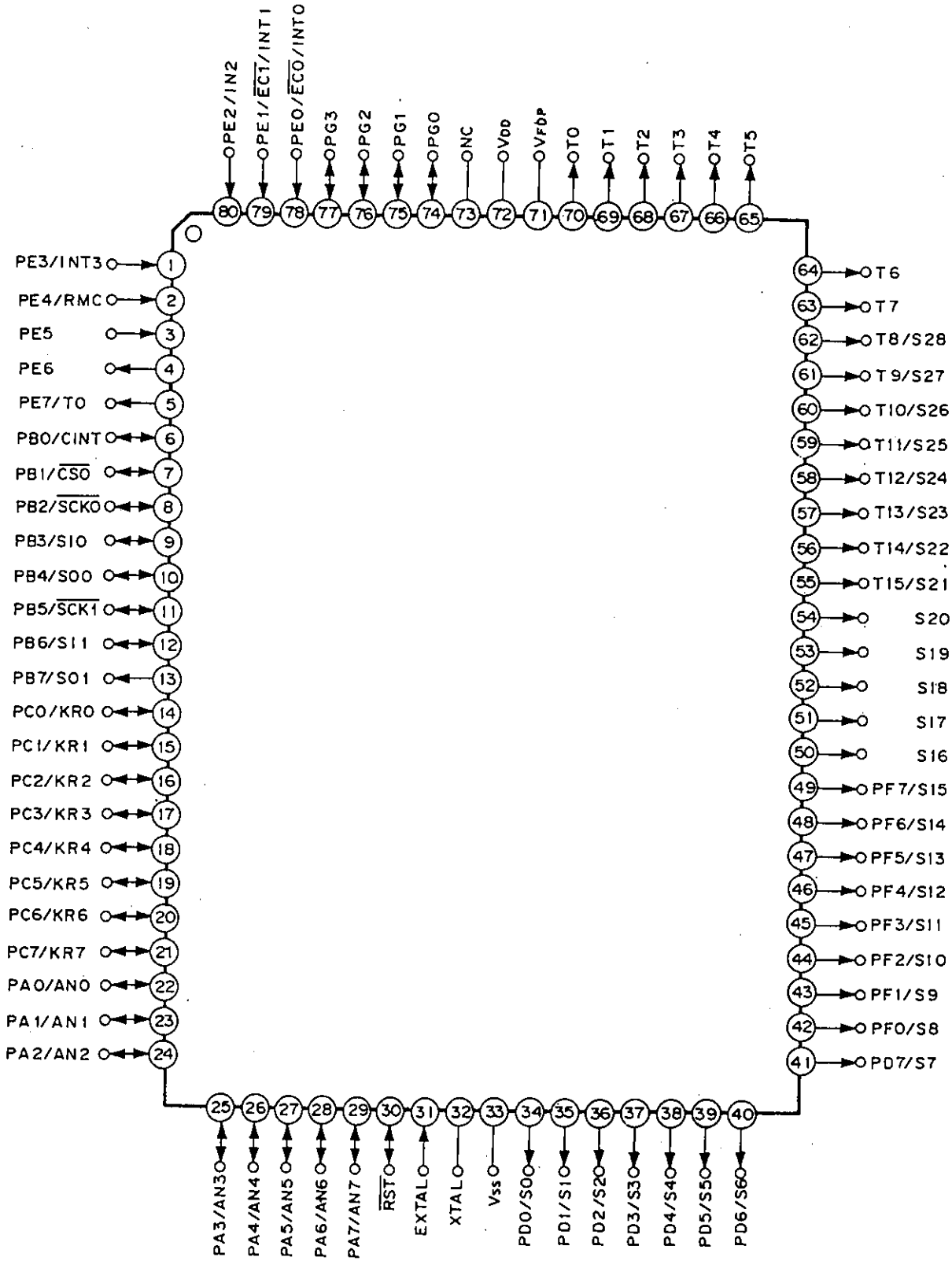
Sony reserves the right to change products and specifications without prior notice. This information does not convey any license by any implication or otherwise under any patents or other right. Application circuits shown, if any, are typical examples illustrating the operation of the devices. Sony cannot assume responsibility for any problems arising out of the use of these circuits.

E91722A29 – ST

Block Diagram



Pin Configuration Diagram (Top View)



Note) NC (Pin 73) is always connected to V_{DD}.

Pin Description

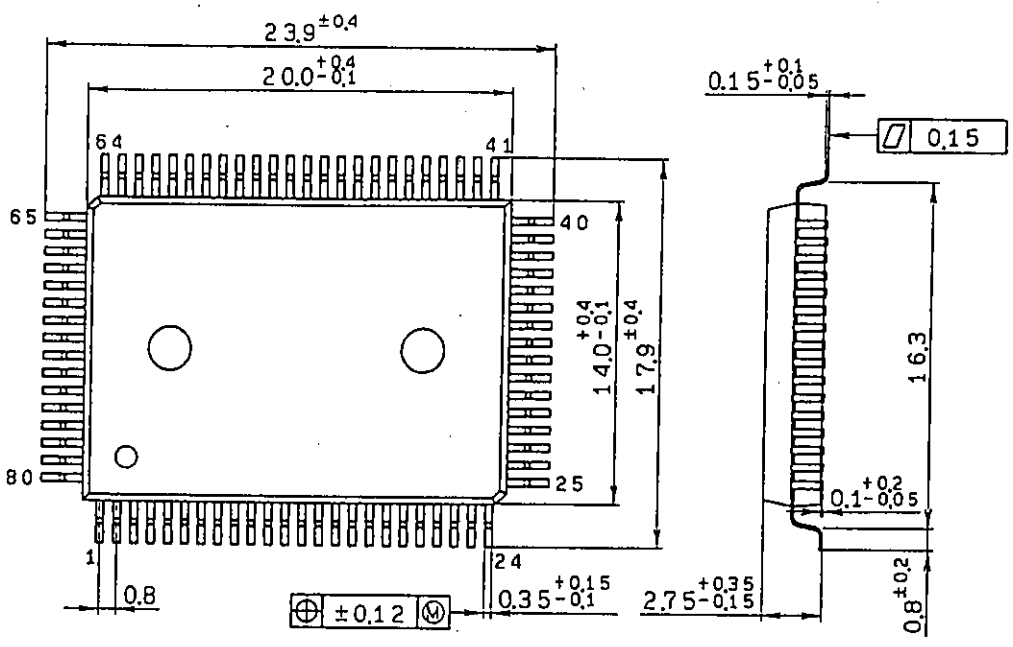
Symbol	I/O	Function	
PA0/AN0 to PA7/AN7	I/O/Analog input	(Port A) 8-bit port; single bit addressable. (8 lines)	Analog input to A/D converter. (8 lines)
PB0/CINT	I/O/Input	(Port B) Single bit addressable from amongst lower 7 bits; highest bit (PB7) dedicated to output. (8 lines)	External capture input for 16-bit timer/counter.
PB1/$\overline{CS0}$	I/O/Input		Chip select input for serial interface (CH0).
PB2/$\overline{SCK0}$	I/O/I/O		Serial clock (CH0) input/output.
PB3/SI0	I/O/Input		Serial data (CH0) input.
PB4/SO0	I/O/Output		Serial data (CH0) output.
PB5/$\overline{SCK1}$	I/O/I/O		Serial clock (CH1) input/output.
PB6/SI1	I/O/Input		Serial data (CH1) input.
PB7/SO1	Output/Output		Serial data (CH1) output.
PC0/KR0 to PC7/KR7	I/O/Input	(Port C) 8-bit port; single bit addressable. Can provide 12mA sink current. (8 lines)	Key return input for FDP segment signal which performs key scanning.
$\overline{PE0}$/INT0/$\overline{EC0}$	Input/Input/Input	(Port E) 8-bit port with lower 6 bits dedicated to input and upper 2 bits dedicated to output. (8 lines)	Input for external interrupt requests. (4 lines)
$\overline{PE1}$/INT1/$\overline{EC1}$	Input/Input/Input		External event input to timer/counter. (2 lines)
PE2/INT2	Input/Input		
PE3/INT3	Input/Input		
PE4/RMC	Input/Input		Input for remote control receiving circuit.
PE5	Input		
PE6	Output		
PE7/TO	Output/Output		Output pin for 16-bit timer/counter rectangular waveform.
PG0 to PG3	I/O	(Port G) 4-bit input/output port; single bit addressable. (4 lines)	
PF0/S8 to PF7/S15	Output/Output	(Port F) 8-bit dedicated output port. (8 lines)	Segment signal output for FDP.
S16 to S20	Output	Segment signal output for FDP.	
T8/S28 to T15/S21	Output/Output	Dual purpose output for FDP timing and segment signals.	
T0 to T7	Output	Timing signal output for FDP.	

Symbol	I/O	Function	
PD0/S0 to PD7/S7	Output/Output	(Port D) 8-bit dedicated output port. (8 lines)	Segment signal output for FDP.
V_{FDP}		Provides voltage for FDP when on-chip resistor is selected under mask option.	
EXTAL	Input	Connection for system clock oscillation crystal. When using an external clock, input normal signal to EXTAL and reverse phase signal to the XTAL pin.	
XTAL	Output		
$\overline{RST}$	I/O	System reset, active "L". The $\overline{RST}$ pin is an input/output pin which outputs a "L" level from the on-chip power on reset circuit when the power is turned on.	
NC		NC pin is always connected to V_{DD}.	
V_{DD}		Positive power supply pin.	
Vss		GND	

Package Outline

Unit : mm

80pin QFP (Plastic) 1.6g



SONY NAME	QFP-80P-L01
EIAJ NAME	*QFP080-P-1420-A
JEDEC CODE	———

DVD600II Electrical Parts List

Ref. Designator	Part Number	Qty	Description
MAIN PCB			
Capacitors			
C201P,C204,C206,C210, C221,C232,C311,C406	2026894030	8	CE 100U0F +20% 10.0V 85C
C203,C205,C209,C220	1013896091	4	CCCFMIC 10N0F +10% -10% 50.0V X7R
C215,C217,C218,C222B, C222C,C222G,C222R,C222S, C222Y,C225,C234,C235, C504,C201,C202,C207,C208, C219,C222,C223,C224,C312, C401,C402,C403	2028804091	25	CCCFMIC 100N0F +80% -20% 16.0V Y5V
C216	2050668091	1	CCCFMIC 470P0F +5% -5% 50.0V NP0
C220B,C220C,C220G,C220R, C220S,C220Y	2025267030	6	CE 470U0F +20% 10.0V 85C
C221B,C221C,C221G,C221R, C221S,C221Y	1013867091	6	CCCFMIC 3N3F +10% -10% 50.0V X7R
C223B,C223C,C223G,C223R, C223S,C223Y	2025265030	6	CE 220U0F +20% 16.0V 85C
C224B,C224C,C224G,C224R, C224S,C224Y,C225B,C225C, C225G,C225R,C225S,C225Y	2099397091	12	CCCFMIC 390P0F +5% -5% 50.0V NP0
C226,C227	1013734091	2	CCCFMIC 68P0F +10% -10% 50.0V NP0
C228,C229,C230	2026783030	3	CE 47U0F +20% 16.0V 85C
C233,C505	2026862030	2	CE 470U0F +20% 6.3V 85C
C237,C238,C239,C240,C241	2050659091	5	CCCFMIC 100P0F +5% -5% 50.0V NP0
C242,C243,C244,C245	2050654091	4	CCCFMIC 10P0F +0P5F -0P5F 50.0V NP0
C404,C405	1013855091	2	CCCFMIC 1N0F +10% -10% 50.0V X7R
C501	1037509091	1	CCCFMIC 20P0F +5% -5% 50.0V NP0
C502,C503	2050652091	2	CCCFMIC 22P0F +5% -5% 50.0V NP0
Semiconductors			
D303	2049651085	1	D-SLP 1SS355 35.0V 225MI0A
IC201	55130350IC	1	IC-VIDEOPROC STI5519 MPEG VIDEO DECODER
IC202	2094074065	1	IC-EEPROM M24C02WMN6
IC21P	20361320NR	1	IC-REGPOSFXD KIA7806PI NORMAL
IC301	55236130MS	1	IC-DRAM 100M0 HZ 6N0 64M(1M*16*4) HY57V641620HGT-H 133MHZ
IC401	55136720MS	1	IC-MEMFLASH M29W800AT90N1
IC501	55133310KV	1	IC-LOGIC M74HCU04M1R INVERTER HCT
Q201,Q202,Q203	2097046092	3	TR-SLPSWA KTC3875Y N 50V 150MI0A
Q220B,Q220C,Q220G, Q220R,Q220S,Q220Y	5513869056	6	TR-SLPLF KTN2907A P -600MI0A
Q221B,Q221C,Q221G, Q221R,Q221S,Q221Y	5513871092	6	TR-SLPSWA KTD1304 N 20V 300MI0A
Resistors			
R201,R202,R203,R204,R221, R273,R274,R303,R304,R305, R306,R307,R308,R501,J301, R301,R302,R309	1013474091	18	RMGCFMIC 100R0 OHM +5% 62MI5W
R205,R209	1013508091	2	RMGCFMIC 18K0 OHM +5% 62MI5W

Ref. Designator	Part Number	Qty		Description
R206B,R207G,R208R,R210Y, R211C,R212S	1013485091	6		RMGCFMIC 270R0 OHM +5% 62MI5W
R217S,R218C,R219Y,R220B, R220G,R220R,R266,R438, R254	1013441091	9		RMGCFMIC 10R0 OHM +5% 62MI5W
R221B,R221C,R221G,R221R, R221S,R221Y	1013498091	6		RMGCFMIC 820R0 OHM +5% 62MI5W
R222B,R222C,R222G,R222R, R222S,R222Y	1013586091	6		RMGCFMIC 2K2 OHM +5% 62MI5W
R223,R237,R238,R239,R240, R241,R256,R262,R263,R267, R268,R282,R283,R285,R289, R290,R401,R402,R403,R409, R421,R422,R423,R424,R425, R426,R427,R428,R252,R404, R407,R408,R410	1013465091	33		RMGCFMIC 47R0 OHM +5% 62MI5W
R223B,R223C,R223G,R223R, R223S,R223Y,R264,R265	1013471091	8		RMGCFMIC 75R0 OHM +5% 62MI5W
R224B,R224C,R224G,R224R, R224S,R224Y,R226B,R226C, R226G,R226R,R226S,R226Y	1013446091	12		RMGCFMIC 12R0 OHM +5% 62MI5W
R225B,R225C,R225G,R225R, R225S,R225Y	1043498091	6		RMGCFMIC 8R2 OHM +5% 62MI5W
R227B,R227C,R227G,R227R, R227S,R227Y	1013476091	6		RMGCFMIC 120R0 OHM +5% 62MI5W
R228,R250,R257	1013577091	3		RMGCFMIC 1K0 OHM +5% 62MI5W
R236,R315,R413,R429,R430, R431,R432,R433,R434,R435, R436	1013522091	11		RMGCFMIC 47K0 OHM +5% 62MI5W
R243,R244,R245,R248,R251, R280,R281,R288,R298,R405, R406,R242,R253,R255,	1013501091	14		RMGCFMIC 10K0 OHM +5% 62MI5W
R246,R247,R271,R310,R311, R312,R313	1013594091	7		RMGCFMIC 4K7 OHM +5% 62MI5W
R269,R270	1013584091	2		RMGCFMIC 1K8 OHM +5% 62MI5W
R474	5523277016	1		RMF 2R2 OHM +5% 500MI0W
R502	1013468091	1		RMGCFMIC 56R0 OHM +5% 62MI5W
R503	1013562091	1		RMGCFMIC 1M0 OHM +5% 62MI5W
RA301,RA302,RA303,RA304, RA305,RA306,RA307,RA401, RA402,RA403,RA404,RA405, RA406,RA407,RA408	5512982050	15		RCA 47R0 OHM +5% 62MI5W 4
Miscellaneous				
CC201	55182930NR	1		FFC-JUMPER 19X 1.25MM 180MM
CC202	55182940NR	1		FFC-JUMPER 19X 1.25MM 100MM
CN201	55182960NR	1		WIRECONASY UNIQUE 5P 130MM UL1007 PVC DISCRETE 26 1
CN205	55182970NR	1		WIRECONASY UNIQUE 12P 150MM UL1007 PVC DISCRETE 26 1
CN206	55123450	1		CONN 2.0MM 12 MA R NAT LW2003P12 0 0
CP202	55125910NR	1		CONN 1.0MM 15 FE ST BK 00-6232-015-006-800 0 0
CP205,CP201	55124600	2		CONN 1.25MM 19 FE ST WH GF120-19S-TS 2794 A6
J201,J202,J203,J204,J207, R201P,R249,R279,R314, L208,R230,R437	1032875091	12		RMGCFMIC 0 OHM +0% 62MI5W
L201,L202,L203,L209	5518804091	4		LF-SMD 2U2H +10%
L211	5512671050	1		FBEAD SURFACE MT 120OHM FCM2012C-121T06

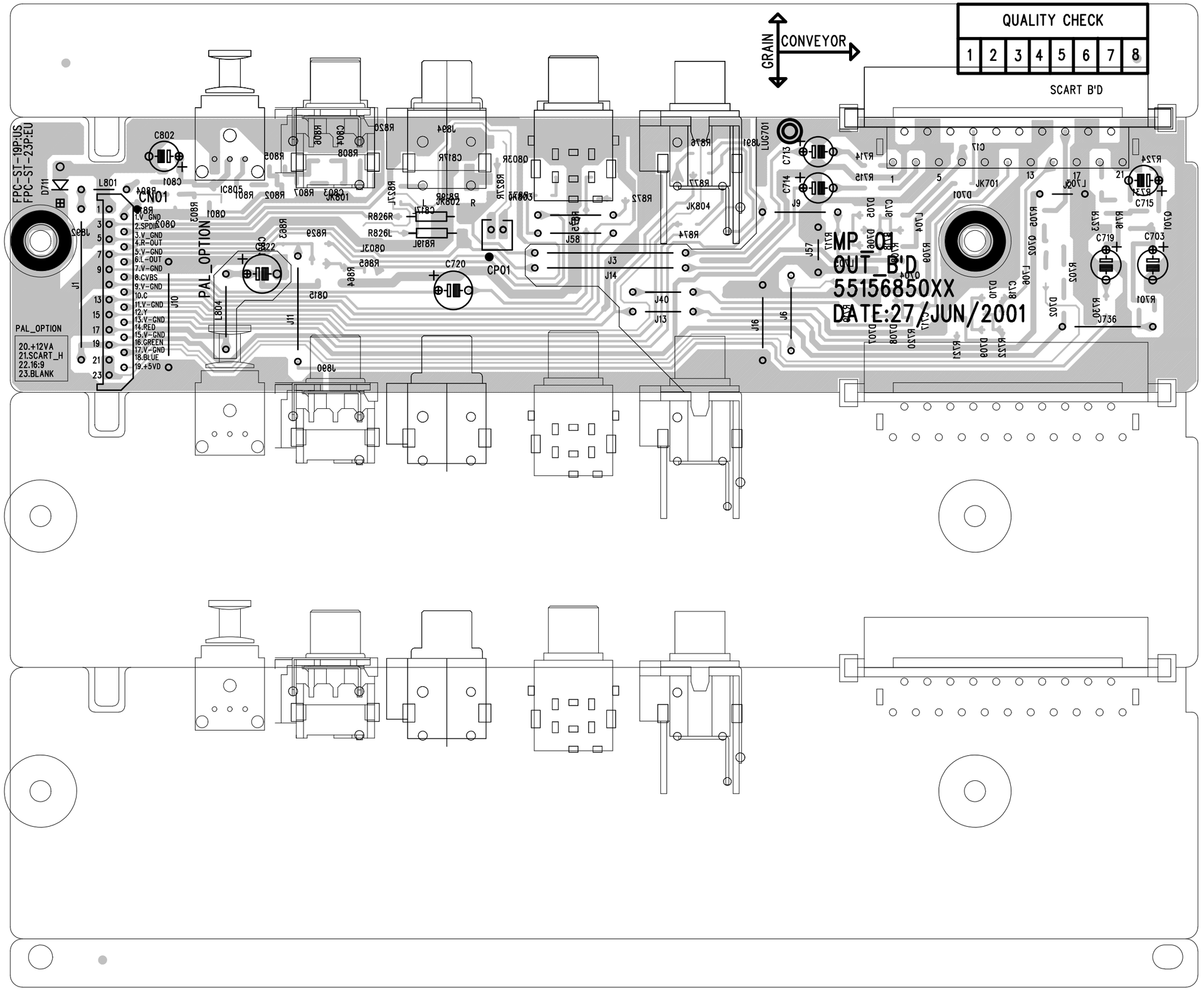
Ref. Designator	Part Number	Qty		Description
L220B,L220C,L220G,L220R, L220S,L220Y	5519045091	6		LF-SMD 2U7H +10%
L301,L501,L204,L205,L206, L210,R415	5512667050	7		FBEAD SURFACE MT 1000OHM FCM2012H-102T04
X501	55128980NR	1		FILQZ 27M0 HZ +15 PPM 50.0 OHM FUNDAMENTAL 16P5 F
SECTION: PCM DAC AUDIO				
Capacitors				
C302L	1013862091	1		CCCFMIC 2N2F +10% -10% 50.0V X7R
C302R	1013862091	1		CCCFMIC 2N2F +10% -10% 50.0V X7R
C303L	2067807091	1		CCCFMIC 330P0F +5% -5% 50.0V NP0
C303R	2067807091	1		CCCFMIC 330P0F +5% -5% 50.0V NP0
C307L	2050659091	1		CCCFMIC 100P0F +5% -5% 50.0V NP0
C307R	2050659091	1		CCCFMIC 100P0F +5% -5% 50.0V NP0
C321	2050654091	1		CCCFMIC 10P0F +0P5F -0P5F 50.0V NP0
C304L	2028804091	1		CCCFMIC 100N0F +80% -20% 16.0V Y5V
C304R	2028804091	1		CCCFMIC 100N0F +80% -20% 16.0V Y5V
C322	1013839091	1		CCCFMIC 560P0F +10% -10% 50.0V X7R
C324	1013839091	1		CCCFMIC 560P0F +10% -10% 50.0V X7R
C326	1013839091	1		CCCFMIC 560P0F +10% -10% 50.0V X7R
C328	2050654091	1		CCCFMIC 10P0F +0P5F -0P5F 50.0V NP0
C329	2050654091	1		CCCFMIC 10P0F +0P5F -0P5F 50.0V NP0
C301L	2026783030	1		CE 47U0F +20% 16.0V 85C 20251640
C301R	2026783030	1		CE 47U0F +20% 16.0V 85C 20251640
C305L	2026783030	1		CE 47U0F +20% 16.0V 85C 20251640
C305R	2026783030	1		CE 47U0F +20% 16.0V 85C 20251640
C306L	2026783030	1		CE 47U0F +20% 16.0V 85C 20251640
C306R	2026783030	1		CE 47U0F +20% 16.0V 85C 20251640
C323	2026783030	1		CE 47U0F +20% 16.0V 85C 20251640
C327	1500213030	1		CE 10U0F +20% 16.0V 85C
C325	20252680AM	1		CE 1MI0F +20% 10.0V 85C
C331	20269180AM	1		CE 1MI0F +20% 6.3V 85C
Semiconductors				
D301	5517107085	1		D-ZENER UDZS 2.2 B 2.2V 200MI0W
IC302	55156030MT	1		IC-CONV PCM1748 KE/S D/A
IC303	55128990MT	1		IC-OPERAMP BA4560F DUAL OP
Q301	5513318092	1		TR-SSD DTC114YKA N 10K0 OHM 47K0 OHM
Q301L	5503943092	1		TR-SSD DTC323TK N 2K2 OHM
Q301R	5503943092	1		TR-SSD DTC323TK N 2K2 OHM
Q302L	5513319092	1		TR-SSD DTA114YKA P 10K0 OHM 47K0 OHM
Q302R	5513319092	1		TR-SSD DTA114YKA P 10K0 OHM 47K0 OHM
Resistors				
R321	1013459091	1		RMGCFMIC 33R0 OHM +5% 100MI0W
R301L	1013522091	1		RMGCFMIC 47K0 OHM +5% 100MI0W
R301R	1013522091	1		RMGCFMIC 47K0 OHM +5% 100MI0W
R302L	1013596091	1		RMGCFMIC 5K6 OHM +5% 100MI0W
R302R	1013596091	1		RMGCFMIC 5K6 OHM +5% 100MI0W
R303L	1013592091	1		RMGCFMIC 3K9 OHM +5% 100MI0W
R303R	1013592091	1		RMGCFMIC 3K9 OHM +5% 100MI0W
R304L	1013601091	1		RMGCFMIC 9K1 OHM +5% 100MI0W

Ref. Designator	Part Number	Qty		Description
R304R	1013601091	1		RMGCFMIC 9K1 OHM +5% 100MI0W
R307L	1013487091	1		RMGCFMIC 330R0 OHM +5% 100MI0W
R307R	1013474091	1		RMGCFMIC 100R0 OHM +5% 100MI0W
R308L	1013534091	1		RMGCFMIC 100K0 OHM +5% 100MI0W
R308R	1013534091	1		RMGCFMIC 100K0 OHM +5% 100MI0W
R309L	1013474091	1		RMGCFMIC 100R0 OHM +5% 100MI0W
R309R	1013474091	1		RMGCFMIC 100R0 OHM +5% 100MI0W
R322	1032875091	1		RMGCFMIC 0 OHM +0% 100MI0W
R323	1013491091	1		RMGCFMIC 470R0 OHM +5% 100MI0W
R324	1013540091	1		RMGCFMIC 180K0 OHM +5% 100MI0W
Miscellaneous				
L302	1404174091	1		LF-SMD 2U2H +10%
FRONT PCB				
Capacitors				
C909	2025183039	1		CE 1U0F +20% 50.0V 85C
C903,C904,C905,C908,C911	2026729091	5		CCCFMIN 100N0F +80% -20% 50.0V Y5V
C906	2034184030	1		CE 100U0F +20% 16.0V 85C
C901,C915	2034206039	2		CE 47U0F +20% 16.0V 85C
C916,C907	5517833030	2		CE 470U0F +20% 6.3V 85C
Semiconductors				
D907	20415060AA	1		D-SR 1N4004 400.0V 1.0A
D983	2049651085	1		D-SLP 1SS355 35.0V 225MI0A
D906	5517787088	1		D-SR SCHOTTKY RB501V-40 40.0V 100MI0A
D904	55179310NR	1		D-LEM RED/GREEN 3PIE RD RND CL
DG901	55190890	1		CON PHONO SCKT REMOTEIH 2 PINS
IC901	55286830HE	1		IC-MICROCONT CXP82532-196Q DVD600II
IC902	55177640NR	1		IC-REGNEGFXD KIA7042P 4V2 NORMAL
Q902	5513318092	1		TR-SSD DTC114YKA N 10K0 OHM 47K0 OHM
Q914	5517922056	1		TR-SLPSWA KRA107M P
OP901	55179630NR	1		PHOTCOUP PC-17T1 PHOTOCOUPLER DIP4
RM901	55155930NR	1		IC-REMOTE RPM6938-RSIP-A3 RECEIVER 38KHZ
Resistors				
R984	6044438091	1		RMGCFMIN 270R0 OHM +5% 100MI0W
R927	6044440091	1		RMGCFMIN 22K0 OHM +5% 100MI0W
R901	7043420091	1		RMGCFMIN 100R0 OHM +5% 100MI0W
R914,R924,R934	8044042091	3		RMGCFMIN 33K0 OHM +5% 100MI0W
R986	1106642091	1		RMGCFMIN 390R0 OHM +5% 100MI0W
R974	1106644091	1		RMGCFMIN 3K3 OHM +5% 100MI0W
R913,R923,R933,R949	1106646091	4		RMGCFMIN 8K2 OHM +5% 100MI0W
R926,R943,R987	1106648091	3		RMGCFMIN 47K0 OHM +5% 100MI0W
R910,R947	2047195091	2		RMGCFMIN 1K0 OHM +5% 100MI0W
R911,R921,R931	2047197091	3		RMGCFMIN 2K4 OHM +5% 100MI0W
R912,R922,R932	4043830091	3		RMGCFMIN 6K8 OHM +5% 100MI0W
R909,R946	5088654091	2		RMGCFMIN 330R0 OHM +5% 100MI0W
R902,R938,R939,R940,R941, R942,R944,R985	5088661091	8		RMGCFMIN 10K0 OHM +5% 100MI0W

Ref. Designator	Part Number	Qty		Description
Miscellaneous				
FL901	55190620NR	1		DISPLAY HNV-11SM07 SAMSUNG
L902,L903,L904,L909, L912,L913,L914	5512673050	7		FBEAD SURFACE MT 2000OHM FCM3216V-202T03
L901	5518510091	1		LF-SMD 22U0H +10%
L905,L910,L911,R945	8044051091	4		RMGCFMIN 0 OHM +0% 100MI0W
50	55177590	2		SPONGE -- 40MM X 13MM 3MM 3MM 0 0
70	55190870	1		SPONGE BK 15MM X 5.7MM 8MM 0MM 0 0
100	20634190	1		FELT BK 30.0MM X 25.0MM 0.8MM 0MM 0 0
CP904	55090080	1		CONN 2.0MM 3 MA ST NAT LW2002P03 0 0
CP903	55123310	1		CONN 2.0MM 4 MA ST NAT LW2002P04 0 0
CN905,CN906	55123320	2		CONN 2.0MM 5 MA ST NAT LW2002P05 0 0
CN901	55255440NR	1		WIRECONASY UNIQUE 5P 380MM UL2791 SHIELD 28
CN902	55182990NR	1		WIRECONASY UNIQUE 5P 220MM UL1007 PVC DISCRETE 26 1
CN903	55164170NR	1		WIRECONASY UNIQUE 4P 140MM UL1007 PVC DISCRETE 26 1
CN904	55287670NR	1		WIRECONASY UNIQUE 3P 540MM UL1007 PVC DISCRETE 26 1
SW901,SW903,SW905, SW907,SW909,SW911SW913, SW915,SW917SW919,SW921, SW924,SW927,SW930,SW931	55145270KX	15		SWITACT VERTICAL TACTILE F/B 50MI0A 12.0V 500MI0OHM 1T 1P
X901	55126140NR	1		CRESONATOR 10M0 HZ 25.0 OHM 0F
OUTPUT PCB				
Capacitors				
C804	1105867091	1		CCCFMIN 100P0F +5% -5% 50.0V NP0
C803	1105934091	1		CCCFMIN 10N0F +10% -10% 50.0V X7R
C801	2026729091	1		CCCFMIN 100N0F +80% -20% 50.0V Y5V
C802	2026783030	1		CE 47U0F +20% 16.0V 85C
C720	2026862030	1		CE 470U0F +20% 6.3V 85C
Semiconductors				
D711	7043654016	1		D-SLP 1N4148 100.0V 150E-3A
Q801	2097046092	1		TR-SLPSWA KTC3875Y N 50V 150MI0A
Q802	2097048092	1		TR-SLPSWA KTA1504Y P -50V -150MI0A
Resistors				
R804	3094425091	1		RMGCFMIN 10R0 OHM +5% 100MI0W
R803	3094431091	1		RMGCFMIN 4K7 OHM +5% 100MI0W
R872,R873,R875	5512671050	3		FBEAD SURFACE MT 120OHM FCM2012C-121T06
R805	6044437091	1		RMGCFMIN 180R0 OHM +5% 100MI0W
R801,R806	7043420091	2		RMGCFMIN 100R0 OHM +5% 100MI0W
J894,R802,R807,R808, R815,R820,R827L,R827R, R829,R874,R876,R877	8044051091	12		RMGCFMIN 0 OHM +0% 100MI0W
Miscellaneous				
CN01	55124600	1		CONN 1.25MM 19 FE ST WH GF120-19S-TS 2794 A6
J002,J057,L801,L804	20441240	4		BCL 0.5MM TIN ANNEALED COPPER 7.5MM 8MM FIG 1 20322610

Ref. Designator	Part Number	Qty		Description
J006,J009,J016,J017, J058	20441250	5		BCL 0.5MM TIN ANNEALED COPPER 12.5MM 8MM FIG 1 20322610
J010,J011	20876340	2		BCL 0.6MM TIN ANNEALED COPPER 17.5MM 8MM FIG 1 20322580
JK801	55164750	1		CON PHONO SCKT W/GN 1 PINS
JK804	55175270	1		CON PHONO SCKT RCA 3P RGB W/GND CAP JE030039FN
JK803	55191220	1		CON DIN SCKT MIX SOCKET RCA & S-VIDEO
J001,J003,J014	20329450	3		BCL 0.6MM TIN ANNEALED COPPER 25.0MM 8MM FIG 1 20322580
J013,J040,J736,R826L, R826R	20441180	5		BCL 0.5MM TIN ANNEALED COPPER 10.0MM 8MM FIG 1 20322610
CD5 ass'y				
20	55183170	1		AC ESABD IAU CDM5 BD DVC503
50	5502007A	1		AC PLATTER CD5G -- PL
50	55156840	1		AC PCB CDM5D DV505 SINGLE LAYER
60	20581820	1		AD ASY MOTOR DC FF-130SH-14230
70	20584560	2		AC RAW WHEEL BELT
80	20710160	1		AC BELT PLATTER CD5 -- RU
90	20634190	1		FELT BK 30.0MM X 25.0MM 0.8MM 0MM 0 0
100	20710170	1		AC MLD GEAR WORM CD5
110	20710180	1		AC MLD GEAR HELICAL CD5
120	20711380	1		AC SHAFT CD5 -- ME
130	20711410	1		AC PULLEY CD5 -- PL
140	20712060	1		AC SPRING CLIP CD5
150	20712120	5		AC ROLLER CD5 -- RU
160	20712170	5		AC ROLLER HUB CD5 -- PL
170	55020080	1		AC DRAWER CD5D -- PL
190	55020090	1		AC BASE CD5D -- PL
200	55020110	1		AC MLD GEAR MAIN CD5D
210	20712230	1		AC CAM LIFTER CD5 -- PL
220	20712240	1		AC MLD GEAR DRIVE CD5
230	20712250	1		AC MLD GEAR PULLEY CD5
240	20692300	3		SCREW-ST 3MM 10MM JIS B 1122 53 0 0
250	55517530	1		AD ASY MOTOR DC VERYGOOD VRF-500TB-14415
260	20712270	1		AC BELT DRIVE CD5 -- RU
270	20349530	2		SCREW 2.6MM 4MM JIS B 1111 53 0 0
280	20366370	4		SCREW-SPEC 3MM 10MM JIS LARGE WASHER HD 53 0 0
290	10733290	1		OK TVK 15-1AA/502T
300	20349380	4		SCREW-ST 3MM 08MM JIS B 1122 53 0 0
310	55190460	1		SCREW-ST 3MM 18MM JIS B 1122 25 0 0
320	55190600	1		WASHER 3MM 55MM 1MM 3 00 0 A4
420	55190760	1		AC CPL WASHER-SPR 7.3MM 14.0MM 0.4MM Y 00 0 0
430	55232980	1		AC CPL BRACKET SUPPORT LEFT SUS-304 0.5T
440	55232990	1		AC CPL BRACKET SUPPORT RIGHT SUS-304 0.5T
5000	55183130	1		AC EMBD IMA MECHA BD DVC503
C002,C004	20246950AF	2		CC 100N0F +10% -10% 25.0V Y5R
C001,C003	8043459071	2		CC 22P0F +5% -5% 50.0V NP0
C005	20268030AM	1		CE 1MI0F +20% 25.0V 85C
L001	20265120NR	1		LF 39U0H +10% 130MI0 OHM 1.5A
D001,D002	20414280	2		D-ZENER 1N5232B 5.6V 500MI0W
IC001,IC002	20656300NR	2		IC-MOTORCIR LB1641 MOTOR CONT WITH LOGI
IC001,IC002	20458950NR	0		IC-MOTORCIR BA6209N MOTOR CONT WITH LOGI
IC001,IC002	55183090NR	0		IC-MOTORCIR KA3082 SIP10 MOTOR DRIVER

Ref. Designator	Part Number	Qty		Description
JW14,JW15,JW18,JW22	20441180	4		BCL 0.5MM TIN ANNEALED COPPER 10.0MM 8MM FIG 1 20322610
JW06,JW07,JW13,JW17,JW21	20441260	5		BCL 0.5MM TIN ANNEALED COPPER 15.0MM 8MM FIG 1 20322610
JW03,JW08,JW10,JW20	20441270	4		BCL 0.5MM TIN ANNEALED COPPER 5.0MM 8MM FIG 1 20322610
LUG02	55184700NR	1		WIRECONASY UNIQUE 1 90MM UL1007 PVC DISCRETE 24 1
P003	20504010	1		CONN 2.0MM 6 MA ST NAT JST,B6B-PH-K 0 0
P004	20713210	1		WCL 150-05-05 UL2468 RIBBON 26 150MM NONE 5 5 20372650 1.5MM
P027	20713500NR	1		WIRECONASY 06187F 06 180MM UL20080 RIBBON SOFT 26 12
P406	55183020NR	1		WIRECONASY UNIQUE 12P 70MM UL1007 PVC DISCRETE 26 1
P406B	20649240	1		WCL 060-05-05 UL2468 RIBBON 26 60MM NONE 5 5 20372650 1.5MM
PI001,PI002,PI003	20586840NR	3		D-PHOTO ITR9606/F2(T)
PI001,PI002,PI003	20621240NR	0		D-PHOTO GP1S58V 20MI0A
PI004	20556130NR	1		D-PHOTO GP2S28 20MI0A
R001,R002	5088295016	2		RCF 100R0 OHM +5% 250MI0W
R003,R004	20549430	2		RCFF 2R2 OHM +5% 250MI0W
10733290				DVD600II laser mechanism, ass'y
PACKAGING				
BE8V00	1	PC		CPPII remote control
55186190	1	PC		3-foot, single-lead coaxial digital cable
55192120	1	PC		3-foot, single-lead RCA patch cord with yellow connectors
55208610	1	PC		One single-lead mini phone jack
55281230	1	PC		Outer Carton
55243110	1	PC		AC CPL ENDCAP CUSHION LEFT DVD600MKII
55243120	1	PC		AC CPL ENDCAP CUSHION RIGHT DVD600MKII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PAL_OPTION
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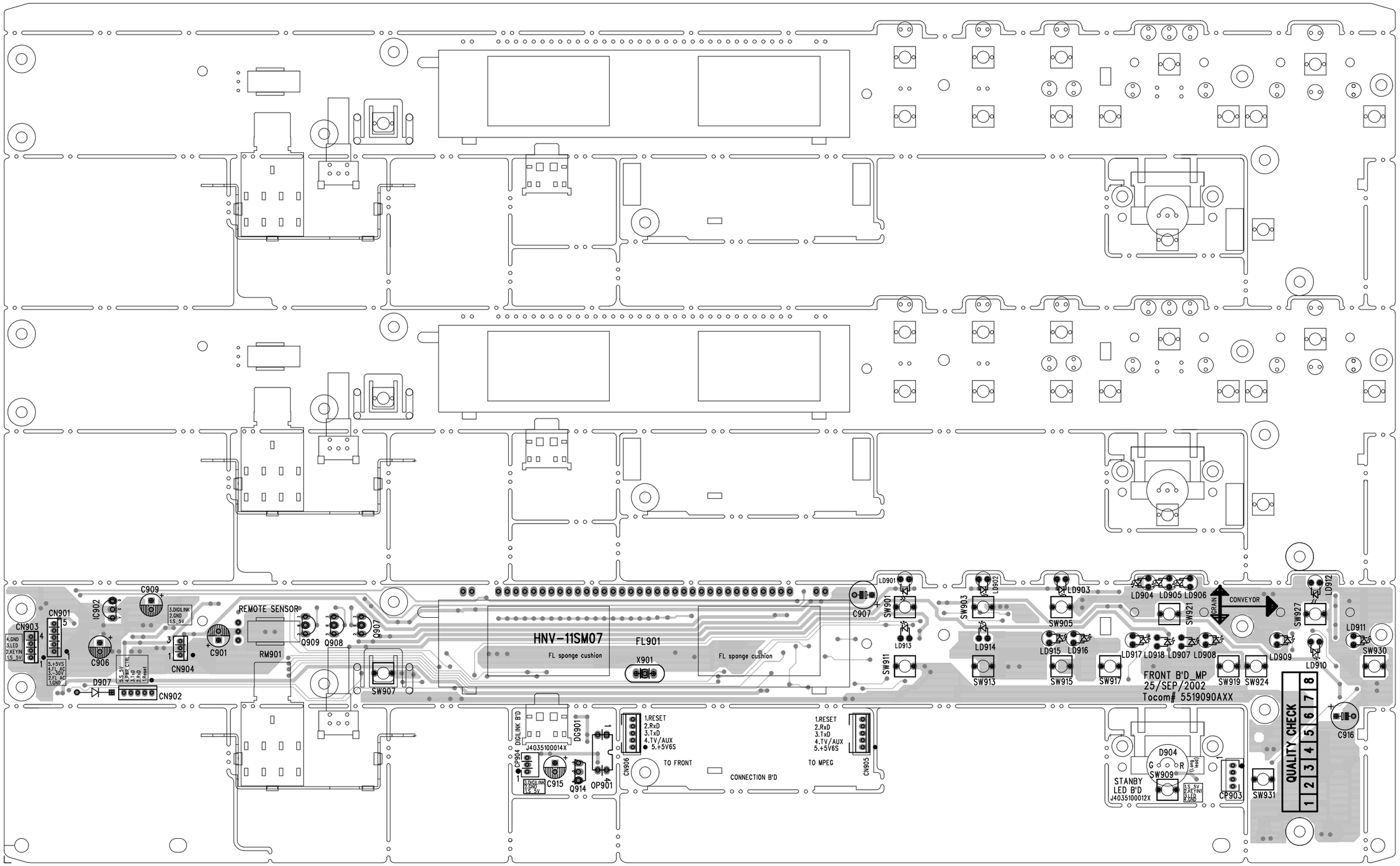
4.R-OUT
5.V-GND
6.L-OUT
7.V-GND
8.CVBS
9.V-GND
10.C
11.V-GND
12.Y
13.V-GND
14.RED
15.V-GND
16.GREEN
17.V-GND
18.BLUE
19.+5VD
20.+12VA
21.SCART_H
22.16:9
23.BLANK
CP01


HNV-11SM07
FL sponge cushion
FL sponge cushion
FL901
X901
REMOTE SENSOR
RM901
CN901
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CN903
CN904
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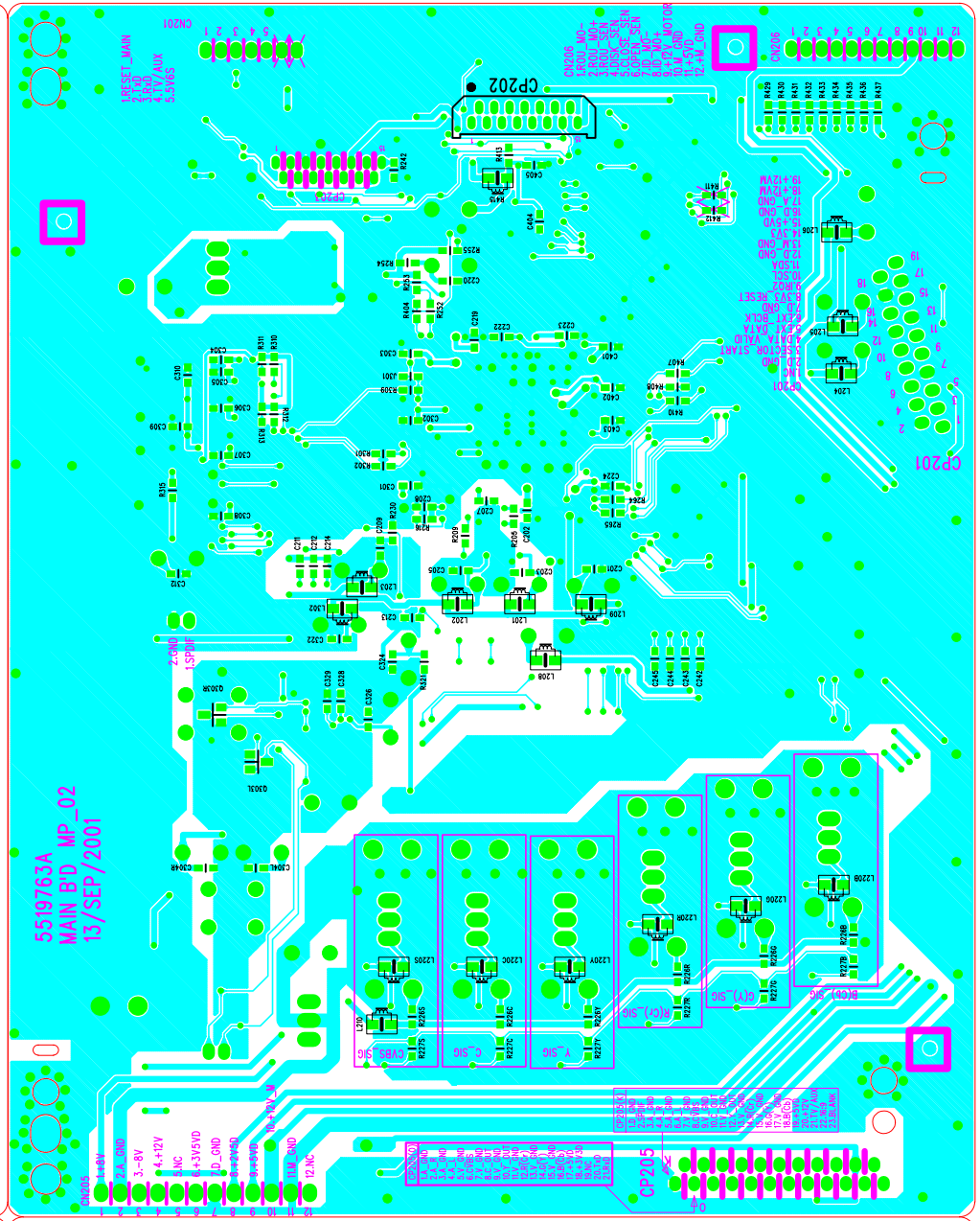
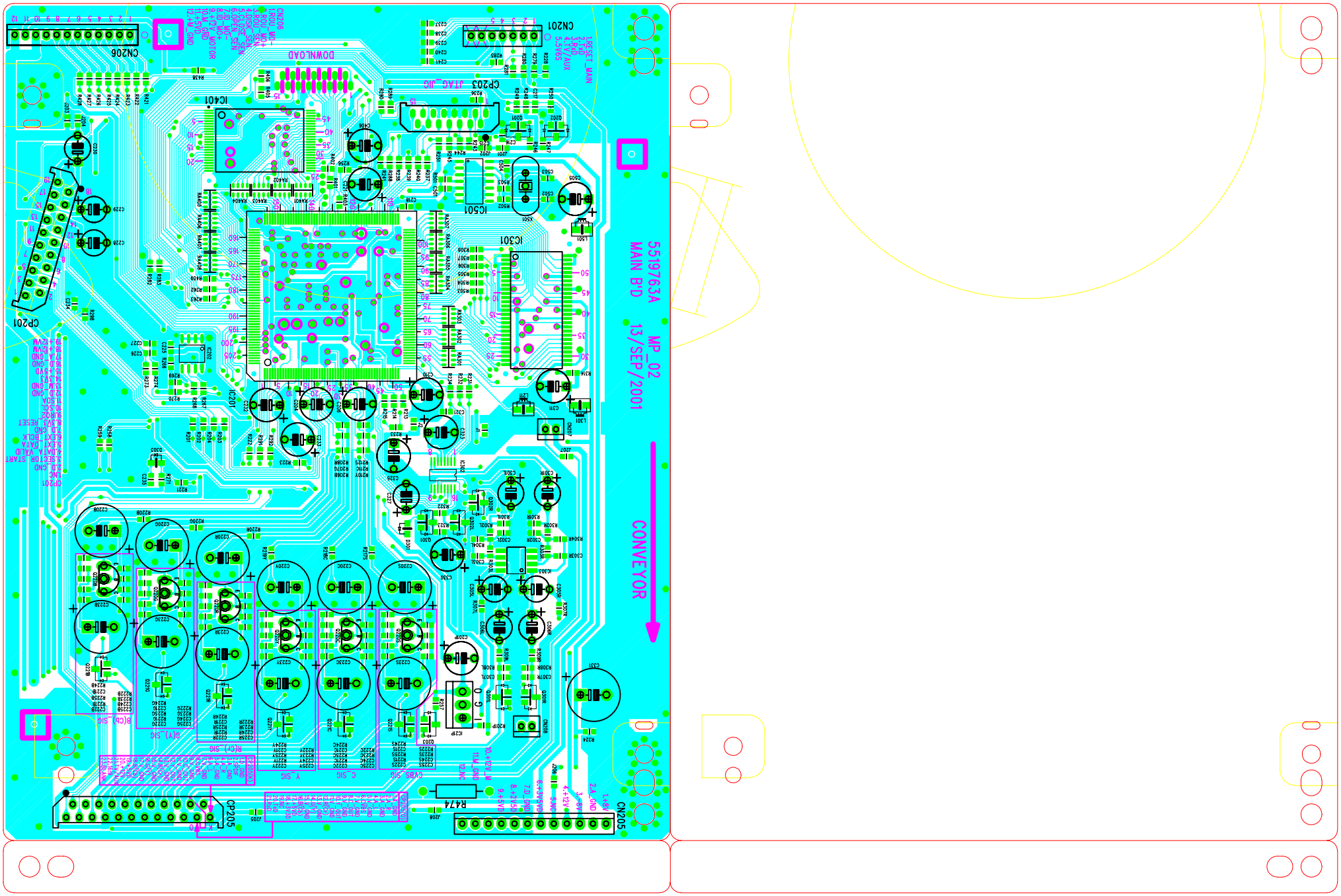
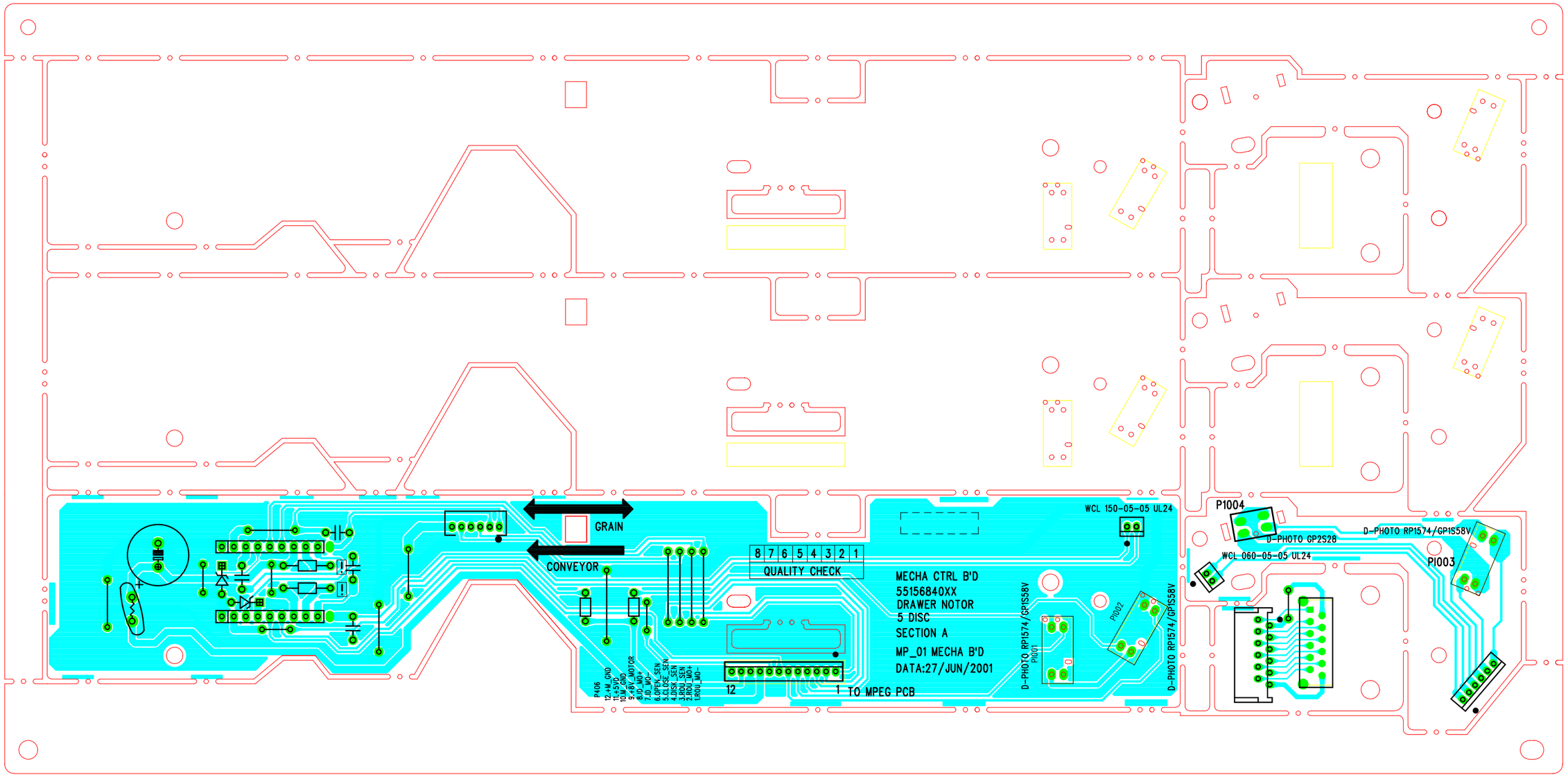
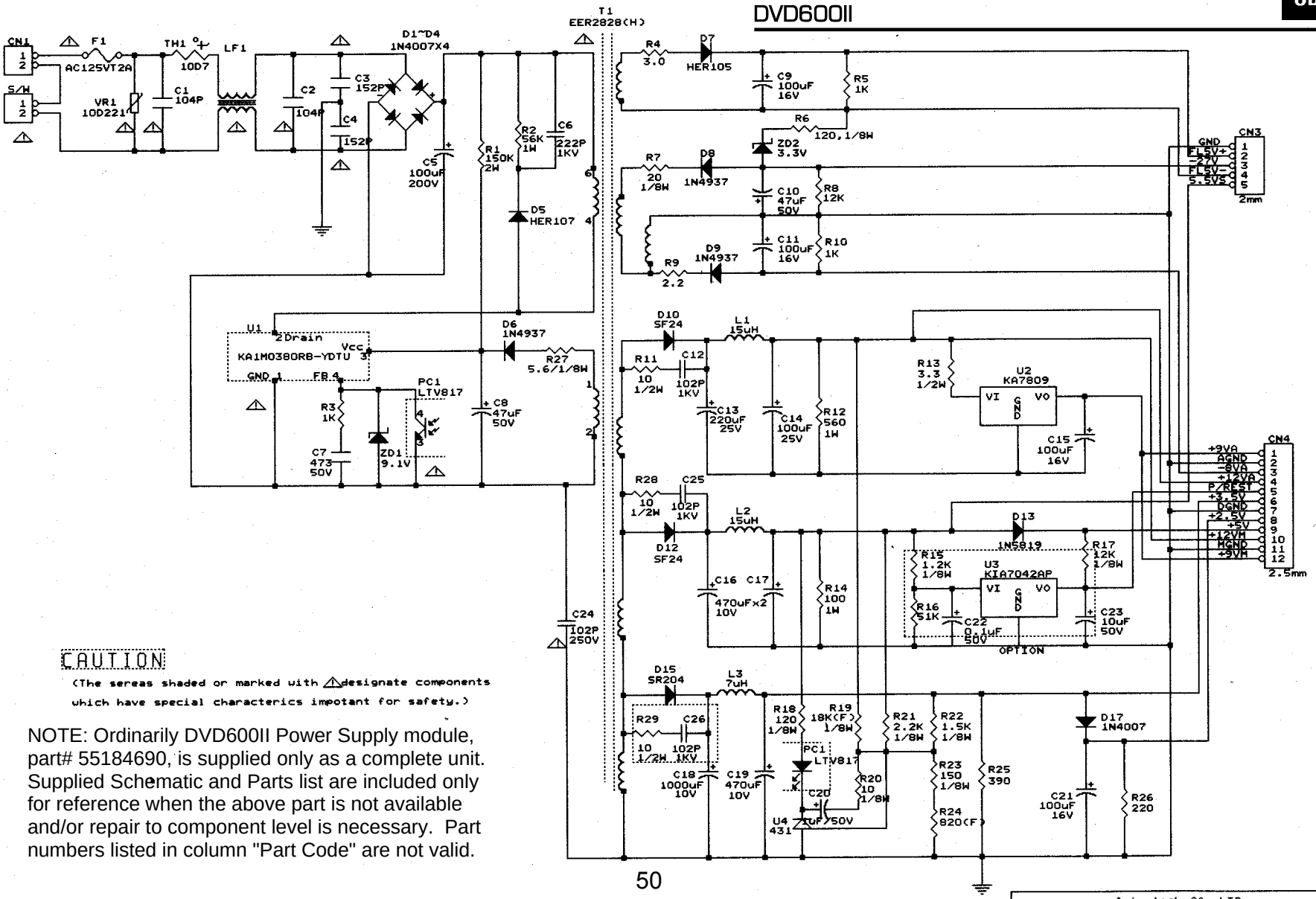
LD914
LD915
LD916
LD917
LD918
SW903
SW905
SW913
SW915
SW917
SW919
SW921
SW924
SW927
SW930
CONVEYOR
FRONT B'D_MP
25/SEP/2002
Tocom# 5519090AXX
QUALITY CHECK
1 2 3 4 5 6 7 8
C916
D904
SW909
SW931
CP903
STANBY
LED B'D
J4035100012X
DIGLINK B'D
J4035100014X
CP904
C915
Q914
OP901
DG901
CN906
TO FRONT
CONNECTION B'D
1.RESET
2.RxD
3.TxD
4.TV/AUX
5.+5V6S
TO MPEG
CN905


CP202
CP201
CP205
5519763A
MAIN BD MP_02
13/SEP/2001


CN206
CN201
IC401
CP203
IC501
IC301
CP201
IC201
559763A
MAN BD
MP_02
13/SEP/2001
CONVEYOR
CP205
R474
CN205


GRAIN
CONVEYOR
8 7 6 5 4 3 2 1
QUALITY CHECK
MECHA CTRL B'D
55156840XX
DRAWER NOTOR
5 DISC
SECTION A
MP_01 MECHA B'D
DATA:27/JUN/2001
P406
12.+M_GND
11.+5VD
10.M_GND
9.+8V_MOTOR
8.OUT_MO+
7.OUT_MO-
6.OPEN_SEN
5.CLOSE_SEN
4.DISK_SEN
3.ROU_SEN
2.ROU_MO+
1.ROU_MO-
12
1
TO MPEG PCB
WCL 150-05-05 UL24
D-PHOTO RP1574/GP1S58V
P1001
P1002
D-PHOTO RP1574/GP1S58V
P1004
D-PHOTO GP2S28
WCL 060-05-05 UL24
D-PHOTO RP1574/GP1S58V
P1003

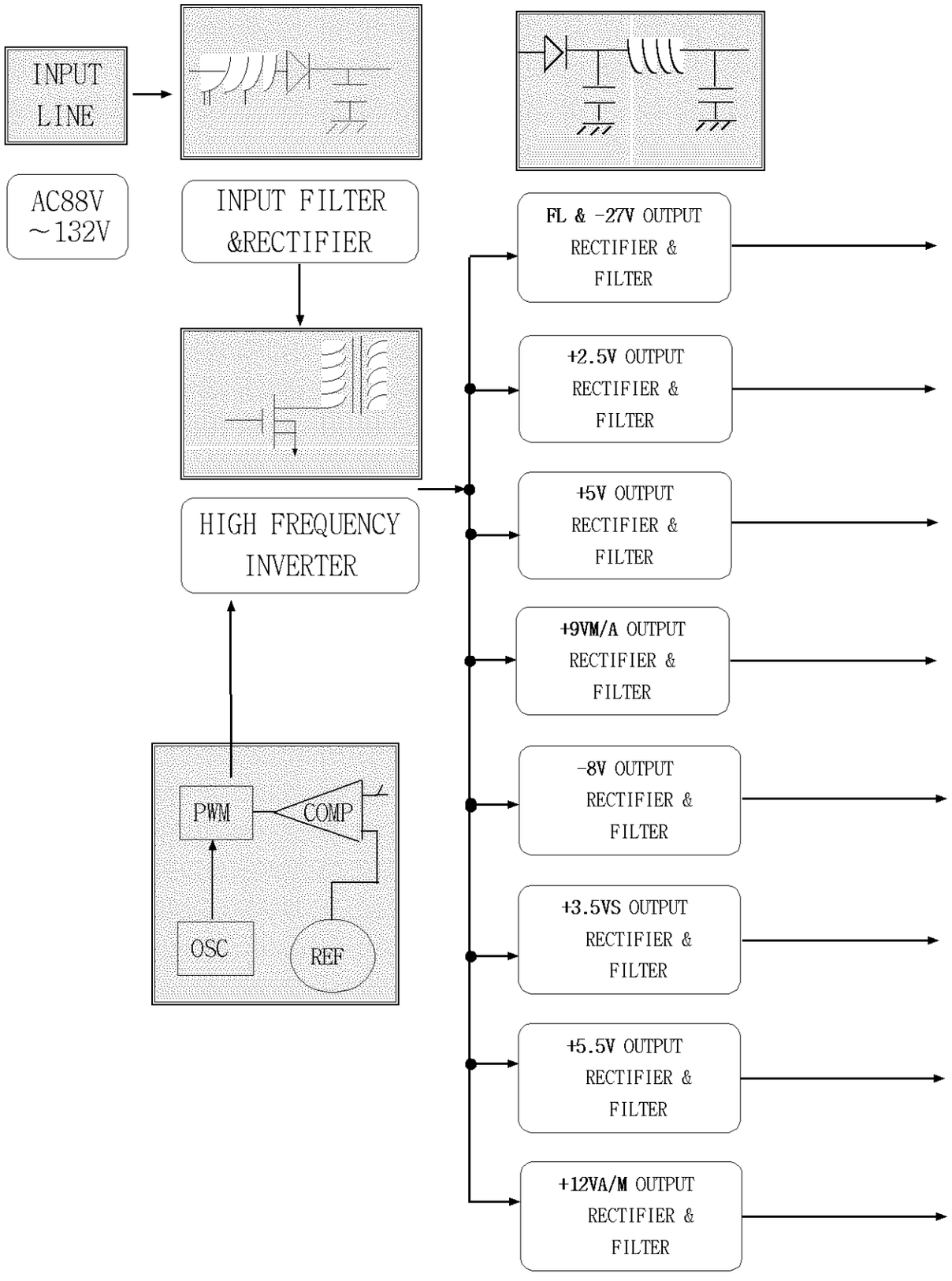


CAUTION

(The sereas shaded or marked with ⚠ designate components which have special characterics impotant for safety.)

NOTE: Ordinarily DVD600II Power Supply module, part# 55184690, is supplied only as a complete unit. Supplied Schematic and Parts list are included only for reference when the above part is not available and/or repair to component level is necessary. Part numbers listed in column "Part Code" are not valid.

BLOCK DIAGRAM



9/17

MODEL : ORTP - 827A,DV-C503

AUTO INSERT (AXIAL)

⚠ : CRITICAL COMPONENT

LOCATION	PART CODE	PART NAME	SPECIFICATION	Q`TY	VENDOR	REMARK
R27	YRE17310	RES.CARBON FILM	1/8W 5.6 ohm J	1	UNI/PILKOR/JOYANG	
R20	YRE10310	RES.CARBON FILM	1/8W 10 ohm J	1	UNI/PILKOR/JOYANG	
R7	YRE18910	RES.CARBON FILM	1/8W 20 ohm J	1	UNI/PILKOR/JOYANG	
R6,18	YRE16810	RES.CARBON FILM	1/8W 120 ohm J	2	UNI/PILKOR/JOYANG	
R23	YRE11210	RES.CARBON FILM	1/8W 150 ohm J	1	UNI/PILKOR/JOYANG	
R22	YRE12810	RES.CARBON FILM	1/8W 1.5K ohm J	1	UNI/PILKOR/JOYANG	
R21	YRE15110	RES.CARBON FILM	1/8W 2.2K ohm J	1	UNI/PILKOR/JOYANG	
R19	YRE67110	RES.CARBON FILM	1/8W 18K ohm -(F)	1	UNI/PILKOR/JOYANG	
R9	YRE13820	RES.CARBON FILM	1/4W 2.2 ohm J	1	UNI/PILKOR/JOYANG	
R4	YRE1A220	RES.CARBON FILM	1/4W 3.0 ohm J	1	UNI/PILKOR/JOYANG	
R26	YRE17420	RES.CARBON FILM	1/4W 220 ohm J	1	UNI/PILKOR/JOYANG	
R25	YRE15720	RES.CARBON FILM	1/4W 390 ohm J	1	UNI/PILKOR/JOYANG	
R3.5.10	YRE13420	RES.CARBON FILM	1/4W 1K ohm J	3	UNI/PILKOR/JOYANG	
R8	YRE15420	RES.CARBON FILM	1/4W 12K ohm J	1	UNI/PILKOR/JOYANG	
R24	YRE64120	RES.CARBON FILM	1/4W 820 ohm -(F)	1	UNI/PILKOR/JOYANG	
R13	YRE17030	RES.CARBON FILM	1/2W 3.3 ohm J	1	UNI/PILKOR/JOYANG	
R11	YRE10330	RES.CARBON FILM	1/2W 10 ohm J	1	UNI/PILKOR/JOYANG	
R28,29	YRE10331	RES.CARBON FILM	1/2W 10 ohm J(MOS)	2	UNI/PILKOR/JOYANG	
R14	YRE11140	RES.METAL FILM	1W 100 ohm J(MOS)	1	UNI/PILKOR/JOYANG	
R12	YRE12040	RES.METAL FILM	1W 560 ohm J(MOS)	1	UNI/PILKOR/JOYANG	
R2	YRE16140	RES.METAL FILM	1W 56K ohm J(MOS)	1	UNI/PILKOR/JOYANG	
D1.2.3.4.17	YDI27502	DIODE RECTIFIER	1N4007	5	G.S/TSC/SINBLE	
D5	YDI37502	DIODE F - R	HER107/SRP100K	1	G.S/TSC/SINBLE	
D7	YDI37302	DIODE F - R	HER105/UF4004	1	G.S/TSC/SINBLE	
D6.8.9	YDI37402	DIODE F - R	1N4937	3	G.S/TSC/SINBLE	
D10.12	YDI37E04	DIODE F - R	SF24/SBYV27-200	2	G.S/TSC/SINBLE	
D13	YDI47202	DIODE S- B	1N5819	1	G.S/TSC/SINBLE	
D15	YDI47204	DIODE S- B	SR204-04	1	G.S/TSC/SINBLE	
ZD1	YDI77009	DIODE ZENER	9V1(1N5239B)	1	G.S/TSC/SINBLE/T.L.F.KEN	
ZD2	YDI77P09	DIODE ZENER	3V3(1N5226B)	1	G.S/TSC/SINBLE/T.L.F.KEN	
PCB	YPC61RPM	PCB	58.5*247*1.6t(FR-1)	1	SAMMI/KCC	
J1,J3,5~20	YJW06200	JUMPER	TIN 0.6t	18	SAMEUN/DEA-A	

AUTO INSERT (RADIAL)

LOCATION	PART CODE	PART NAME	SPECIFICATION	Q`TY	VENDOR	REMARK
C6	YCP10J37	CAP. CERAMIC	2200pF/1KV.(B) K (222P)	1	SEM/SAMWHA/DAEMYUNG	
C12,25,26	YCP10J51	CAP. CERAMIC	1000pF/1KV.(B) K (102P)	3	SEM/SAMWHA/DAEMYUNG	
C7	YCP90355	CAP. FILM	0.047uF/50V(100V).K	1	SEM/SAMWHA/M.S/SEHWA	
C20	YCP23354	CAP.ELEC.	1uF/50V SG/SMS/GS(5x11)	1	SAMWHA/SAMYOUNG/SAMXON	
C8.10	YCP23324	CAP.ELEC.	47uF/50V SG/SMS/GS(6.3x11)	2	SAMWHA/SAMYOUNG/SAMXON	
C9.11.15.21	YCP23126	CAP.ELEC.	100uF/16V SG/SMS/GS(6.3x11)	4	SAMWHA/SAMYOUNG/SAMXON	
C14	YCP23226	CAP.ELEC.	100uF/25V SG/SMS/GS(6.3x11)	1	SAMWHA/SAMYOUNG/SAMXON	
C13	YCP23228	CAP.ELEC.	220uF/25V SG/SMS/GS(8x11.5)	1	SAMWHA/SAMYOUNG/SAMXON	
C16.17.19	YCP23G42	CAP.ELEC.	470uF/10V SG/SMS/GS(8x11.5)	3	SAMWHA/SAMYOUNG/SAMXON	
U4	YIC10004	IC SHUNT REGULATOR	KA431AZ/KIA431/CM431BCNTA	1	FIARCHILD/KEC/CHAMPION	
L1,2	YID04000	COIL CHOKE	150K,CC-150B	2	SUNGWON/KCE	
FOR F1	YFC00000	FUSE CLIP	FC51F	2	TRIAD /SINSUNG	
TH1	YTH21002	THERMISTOR	NTC10D7 /DSC10D7	1	SAM KYUNG / DSC	

MANUAL INSERT

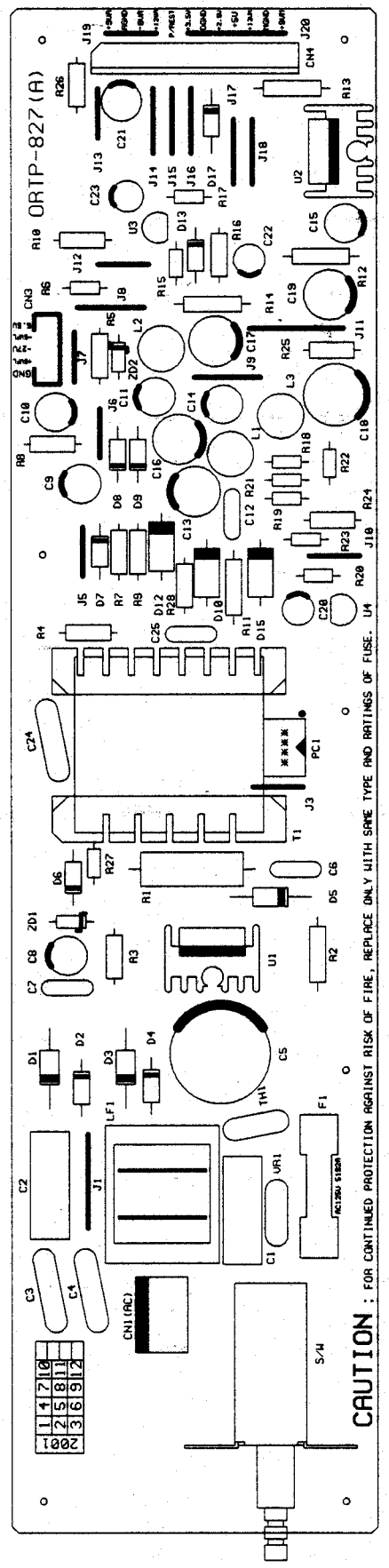
LOCATION	PART CODE	PART NAME	SPECIFICATION	Q`TY	VENDOR	REMARK
R1	YRE11750	RES.METAL OXIDE	2W 150K ohm J	1	UNI/PILKOR/JOYANG	
C3.4	YCP11953	CAP. CERAMIC	1500pF400VAC-Y1 M AD/SD/DG	2	SEM/SAMWHA/DAEMYUNG	⚠
C24	YCP11951	CAP. CERAMIC	1000pF400VAC-Y1 M AD/SD/DG	1	SEM/SAMWHA/DAEMYUNG	⚠
C1,2	YCP51I16	CAP. MPP FILM	0.1uF 275VAC-PCX2-335M WBU1942NA104	2	PILKOR/YEC	⚠
C18	YCP23G41	CAP.ELEC.	1000uF/10V SG/SMS/GS(10x16)	1	SAMWHA/SAMYOUNG/SAMXON	
C5	YCP23626	CAP.ELEC.	100uF/200V SG/SMS/GS(16x25.5)	1	SAMWHA/SAMYOUNG/SAMXON	
T1	YST00020	TRANSFORMER	ORT-827(EER2828-H),DY	1	ORIENTECH	⚠
LF1	YLF10000	LINE FILTER	DY-2030S/BJ-2030/LF-2030	1	ORIENTECH/SUNGWON/KCE	⚠
L3	YID07000	COIL CHOKE	7uH(5x20)	1	SUNGWON/KCE	
PC1	YIC10006	PHOTO COUPLER	LTV817B,C & H11A817B,C	1	LITEON/FAIRCHILD	⚠
VR1	YVA35400	VARISTOR	SVC221D-10A/INR10D221	1	SAMWHA/IL JIN	⚠
CN4	YCN00924	CONNECTOR	5267-12A/LWB0640-12	1	LEOCO/HANLIM/GEOYOUNG	
CN1	YCN00860	CONNECTOR	3951P03VP01	1	MOLEX/HANLIM/YUN HO/LEOCO	
CN3	YCN00926	CONNECTOR	GIL-S-5P-S2T2-E(STRAIGHT)	1	LGC	
S/W	YSW00001	PUSH S/W	PS3-22SP/SDLIP(TV-3)	1	SOLTEAM/ALPS	⚠
F1	YFU32100	FUSE	AC125V 51S2A	1	LITTLEFUSE TRIAD	⚠

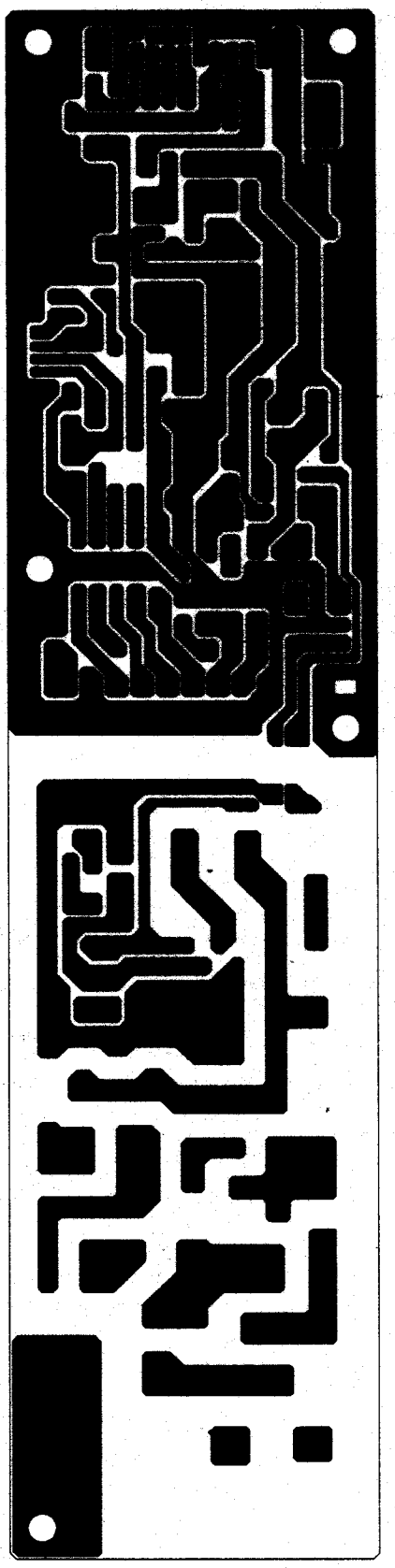
ASSEMBLY

LOCATION	PART CODE	PART NAME	SPECIFICATION	Q`TY	VENDOR	REMARK
U1	YIC10012	IC PWM SWITCHING	KA1M0380RB-YDTU	1	FAIRCHILD	⚠
U2	YIC10013	IC REGULATOR	KA7809	1	FAIRCHILD/KEC/G.S	
FOR U1,U2	YHS00018	HEAT SINK	15x11x19(HOLE)x26(H)	2	TAESUNG/MI KYUNG	SILVER
FOR U1,U2	YBT05000	SCREW PH (W/W)	M3 * 8 ASSEMBLY	2	SAM POONG / BUKWANG	
FOR HEAT SINK	YBB00004	UNILOCK(BOND)	SCREW LOCK	0.0005g	LOCK	

SUB MATERIALS

LOCATION	PART CODE	PART NAME	SPECIFICATION	Q`TY	VENDOR	REMARK
FOR CARTON BOX	YLAG154C	STICKER PAPER	LABEL(LOT NO.)	1	DONGYANG/O-SUNG	
FOR PCB	YBB00001	CONFORMAL COAT	RTV122/LDC7091	g	DONGYANG/LUCKY	
CARTON BOX	YB041016	OUT BOX		1	DAESHIN / DONGJIN	
FOR CARTON BOX		PAD-A		4	DAESHIN / YOUNG JOO	
FOR CARTON BOX		PAD-B		20	DAESHIN / YOUNG JOO	
FOR CARTON BOX		PAD-C		1	DAESHIN / YOUNG JOO	
FOR PCB	YS011000	SOLDER BAR		9.5g	SAMWOO/HEESUNG	
	YS021100	SOLDER WIRE			SAMWOO/HEESUNG	
	YFL00000	FLUX	319F		TONG YUN	
	YTN10000	THINNER	319		TONG YUN	


ORTP-827(A)
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATINGS OF FUSE.



DVD6001I/DV-505 MECHA SCHEMATIC DIAGRAM

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

(TO# 20712960 : AC SCHEMATIC DWG CD5E CRKD2306/12/15)
(TO# 55156840XX : AC PCB CDM5D DV505 SINGLE LAYER)

P406
CN-2.0-12P
1.ROU MO-
2.ROU MO-
3.ROU SEN
4.DISC SEN
5.CLOSE SEN
6.OPEN SEN
7.LO MO-
8.LO MO+
9.+8V
10.GND
11.+5V
12.NC

IC001
IC-OPAMPS10
V+ OUT-A -IN-A +IN-A V- +IN-B -IN-B OUT-B V+
C001 22P-R(CH)
100N C002
D001 UZ5V6
2R2 R003
L001 3K(THER)
1000/25V C005

IC002
IC-OPAMPS10
V+ OUT-A -IN-A +IN-A V- +IN-B -IN-B OUT-B V+
100 R002
100 R001
UZ5V6 D002
2R2 R004
100N C003
100N C004

PI002 SENSOR
PI001 SENSOR

P1
CN-2.0-06P
6.B+
5.ROU SEN
4.GND
3.DISC SEN
2.MO-
1.MO+

M100

(TO# 55156840XX : CAROUSEL MOTOR BD)

DVD LOGO P28
CN-2.0-02P
1.CAROUSEL MTE CTRL1
2.CAROUSEL MTE CTRL2
P026
1.CRSMTR-
2.CD_VCC1
3.DISCPRES
4.DGND
5.DISPOS
6.+V1
7. DVD LOGO
8. VCC-LED
P27
CN-2.0-08P
PI003 SENSOR
PI004 SENSOR

CONFIDENTIAL/CONTROL COPY

FILENAME CONTROL	DRAWING NO.		SHEET /
MODEL DVD6001I	DESIGN	CHKD	APPROVAL
DESIGN DATE			

DVD600II FRONT SCH DIAGRAM

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

JBL

DVD600II

FRONT B'D

FROM SMPS

CN902 CN-2.0-05P: RESET, RxD, TxD, POWER CTRL, +5VKS

CN901 CN-2.0-05P: GND, FL AC, -30V, FL AC, +5V6(CPU)

+5VS, S_5V, VDD

L905 0(5) (SMD); (SMD) 22UH(02) L901; RB501V-40 D906

100N(SMD) C915; 100/6.3(SRE) C906; 470/6.3(SS) C907; 100N(SMD) C908; 470/6.3(SS) C916

D907 1N4004

L914 BEAD(SMD); L913 BEAD(SMD); L912 BEAD(SMD); L909 BEAD(SMD)

L904 BEAD(SMD); L902 BEAD(SMD); L903 BEAD(SMD)

22K(SMD) R927; 47K(SMD) R926

GRID00 GRID01 GRID02 GRID03 GRID04 GRID05 GRID06 GRID07 GRID08 GRID09 GRID10

GRID(00:11)

10N(SMD) C903

SRID00 SRID01 SRID02 SRID03 SRID04 SRID05 SRID06 SRID07 SRID08 SRID09 SRID10

FL
FL901

Nc Vdd G0 G1 G2 G3

CN904 CN-2.0-03P

10K(SMD) R902

100(SMD) R901

RM901 RMC

47/16(SRE) C901

RxD
RMC
VDIEO MUTE2
AUDIO MUTE
RESET MAIN
MODE SEL
N.C
KEYIN1
KEYIN2
KEYIN3

IC901
IC-CXP82324

SEG21 SEG20 SEG19 SEG18 SEG17 SEG16 SEG15 SEG14 SEG13 SEG12 SEG11 SEG10 SEG9 SEG8 SEG7 SEG6 SEG5

SEG21 SEG20 SEG19 SEG18 SEG17 SEG16 SEG15 SEG14 SEG13 SEG12 SEG11 SEG10 SEG09 SEG08 SEG07 SEG06 SEG05

SEG21 SEG20 SEG19 SEG18 SEG17 SEG16 SEG15 SEG14 SEG13 SEG12 SEG11 SEG10 SEG09 SEG08 SEG07 SEG06 SEG05 SEG04 SEG03 SEG02 SEG01 SEG00

SEG00 SEG01 SEG02 SEG03 SEG04

SEG(00:22)

PA3/AN3 PA4/AN4 LED LEDS Model SEL -RST EXTAL XTAL Vss SEG0 SEG1 SEG2 SEG3 SEG4

OPTION REGION

X901 RESONATOR

100N(SMD) C911

100N(SMD) C904

PS901 PUSH-SW1

CN905 CN-7.92-02P

(55190900XX-1 : ST-BY LED B'D)

220(SMD) R946; 220(SMD) R909; 680(SMD) R910; 680(SMD) R947; ST-BY

RED; GREEN; SW909

D904 Bicolor LED

CP903 CN-2.0-04P

(55190900XX-2 : DIGILINK B'D)

R893 1SS355; KRA107M Q914; DG901 DIGILINK JACK; 390(SMD) R986; 47/16(SRE) C915; 10K(SMD) R985; 47K(SMD) R987; 270(SMD) R984; OP901 IC-LTV817

5V, GND, DIGILINK

CP904 CP-3P-2.0mm

IC902 IC-KIA7042: VCC, GND, OUT

S_5V; VDD; 47K(SMD) R943; RST; 1/50(SRE) C909

CN903 CN-2.0-04P

C114YS(SMD) Q902

DIMMER SW907 TACT; DISC3 SW905 TACT; DISC2 SW903 TACT; DISC1 SW901 TACT

33K(SMD) R914; 8K2(SMD) R913; 6K8(SMD) R912; 2K4(SMD) R911

SEARCH FORWARD SW919 TACT; SEARCH BACKWARD SW917 TACT; DISK SKIP SW915 TACT; DISC5 SW913 TACT; DISC4 SW911 TACT

33K(SMD) R924; 8K2(SMD) R923; 6K8(SMD) R922; 2K4(SMD) R921

OPEN/CLOSE SW931 TACT; SKIP FORWARD SW930 TACT; STOP SW927 TACT; SKIP BACKWARD SW924 TACT; PLAY/PAUSE SW921 TACT

33K(SMD) R934; 8K2(SMD) R933; 6K8(SMD) R932; 2K4(SMD) R931

KEYIN1 KEYIN2 KEYIN3 KEYIN(1:3)

10K(SMD) R940; 10K(SMD) R939; 10K(SMD) R938

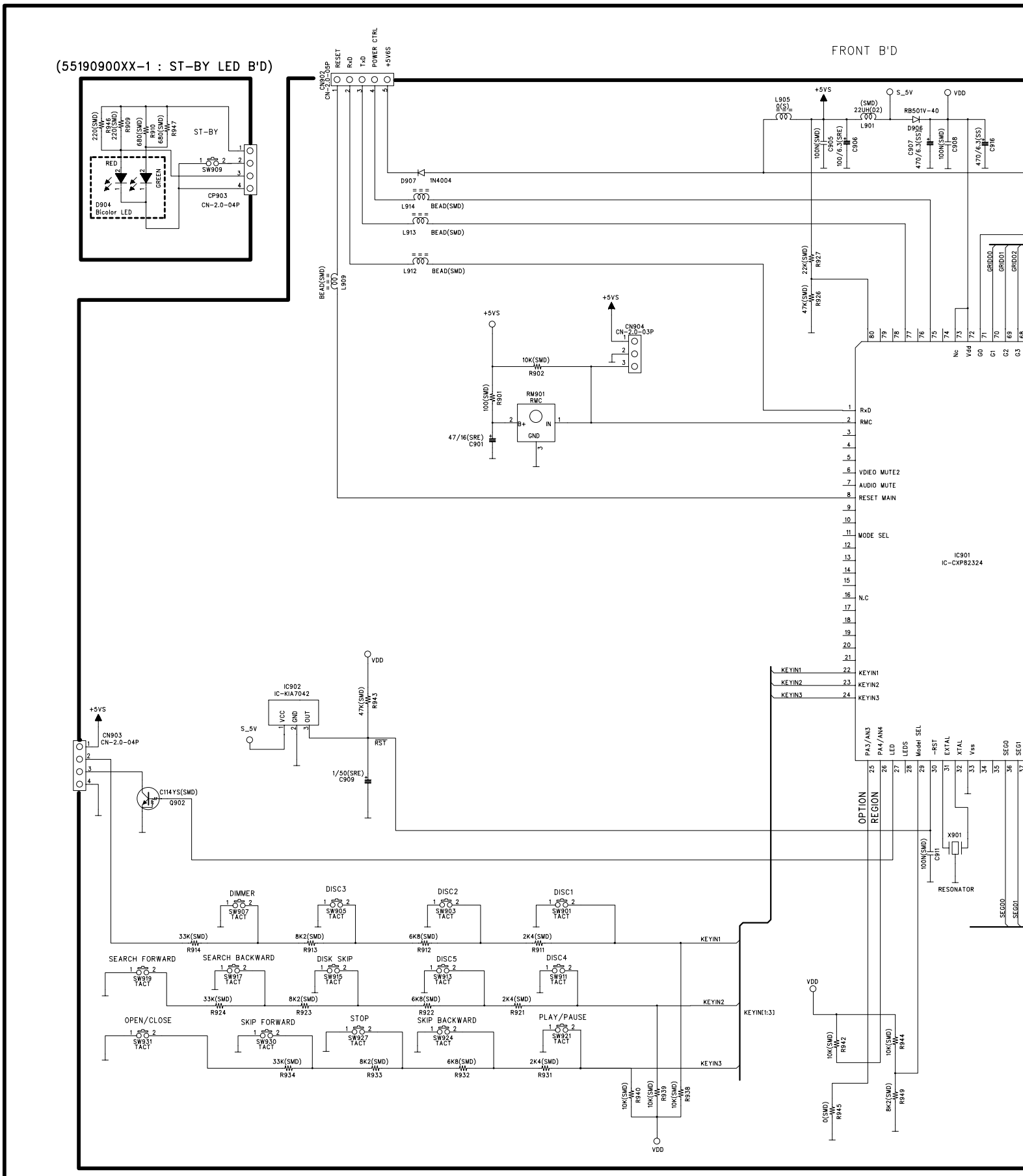
10K(SMD) R942; 10K(SMD) R944; 0(SMD) R945; 8K2(SMD) R949

(55191180XX :AC SCHEMATIC FRONT BD DVD600MKII)

(55190900XX : AC PCB FRONT 400*247 DVD600MKII DUAL LAYERS)

DESIGN:	DATED: 07/JULY/2001	TITLE: FRONT (DVD600II)	
CHKD:	DATED: 07/JULY/2001	CODE:	SIZE: A3
CHKD:	DATED: 07/JULY/2001	DRAWING NO:	REV: 01
APPROVAL:	DATED: 07/JULY/2001	SCALE:	SHEET: 1 OF 1

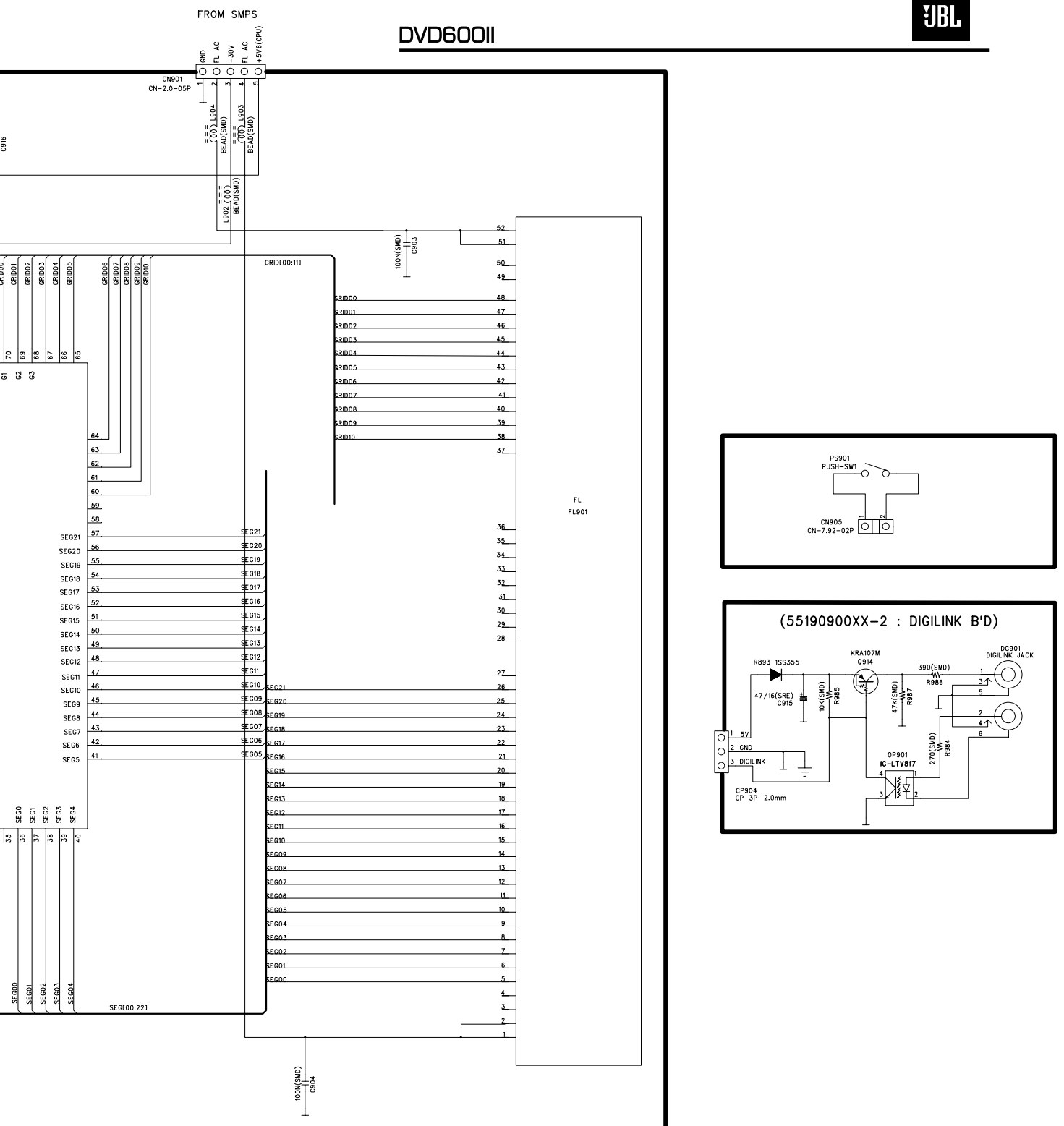
DVD6001I FRONT SC



SCH DIAGRAM

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

DVD600II



(55191180XX :AC SCHEMATIC FRONT BD DVD600MKII)

(55190900XX : AC PCB FRONT 400*247 DVD600MKII DUAL LAYERS)

DESIGN:	DATED: 07/JULY/2001	TITLE: FRONT (DVD600II)			
CHKD:	DATED: 07/JULY/2001	CODE:	SIZE: A3	DRAWING NO:	REV: 01
CHKD:	DATED: 07/JULY/2001				
APPROVAL:	DATED: 07/JULY/2001	SCALE:		SHEET: 1 OF 1	

DVD600II / DV505 SCHEMETIC DIAGRAM

DVD600II

(TO# 5519~~H00XX~~ : AC SCHEMATIC MAIN BD DVD600II)

(TO# 5519763AXX : AC PCB MAIN DV-C503 DUAL LAYERS)

REVISION RECORD			
ITEM	ECO NO:	APPROVED:	DATE:

PCM1748 DAC_AUDIO PART

JTAG TEST CONNECTION

SCRT OPTION

ITEM	VALUE	REMARK
C502	22pF	K/Y/J
C239	24pF	F/T/N/M2/X
C503	22pF	K/Y/J
C503	24pF	F/T/N/M2/X

	R411	R412
ATMEL 16M	0 Ohm	NC
ST 16M	NC	0 Ohm

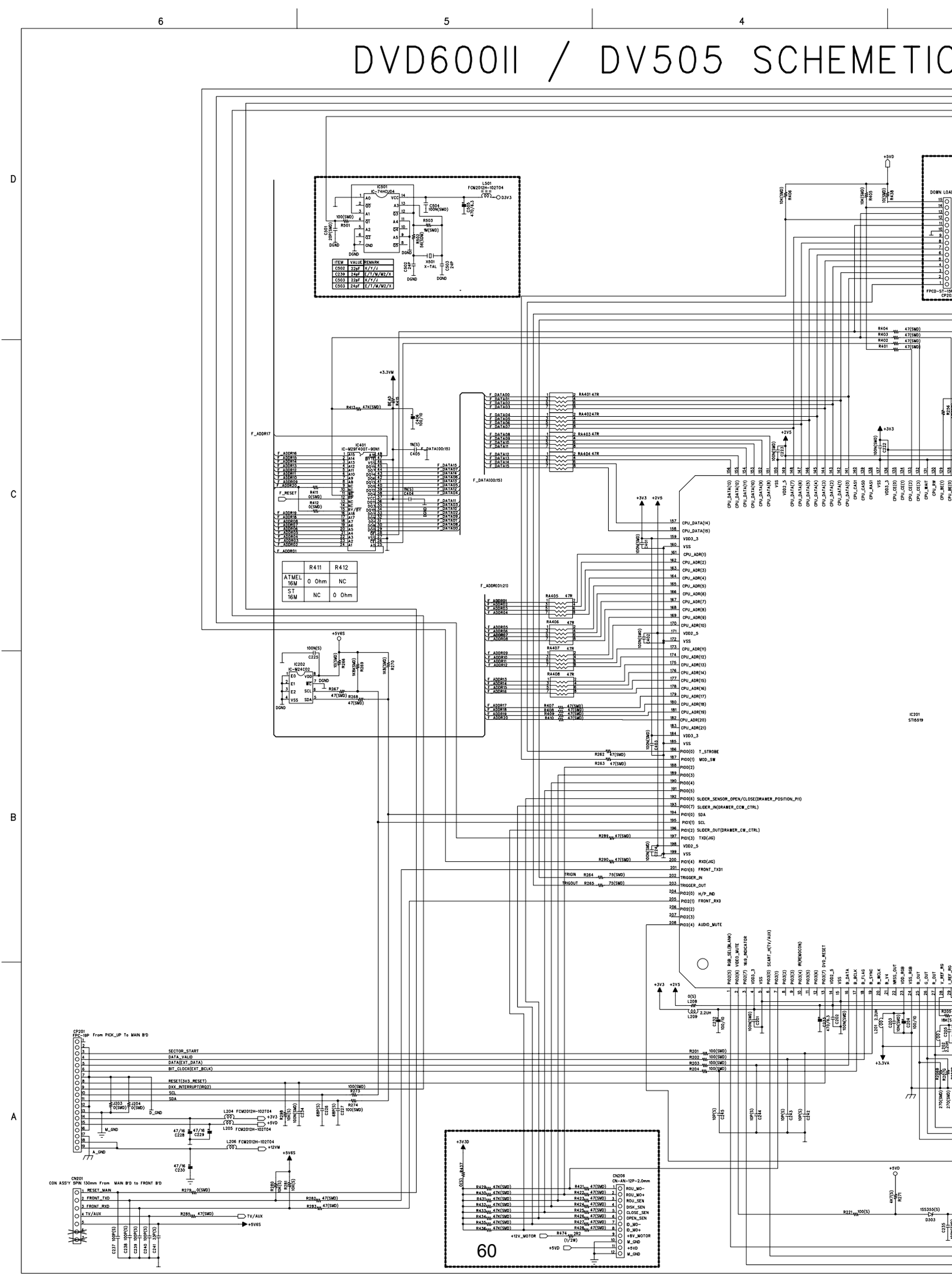
DRAWN:	DATE:	05/AA/2001
CHECKED:	DATE:	
QUALITY CONTROL:	DATE:	
RELEASED:	DATE:	

TITLE: DVD600II-MAIN

CODE: | SIZE: | DRAWING NO: | REV:

SCALE: | SHEET: OF

DVD6001I / DV505 SCHEMETIC



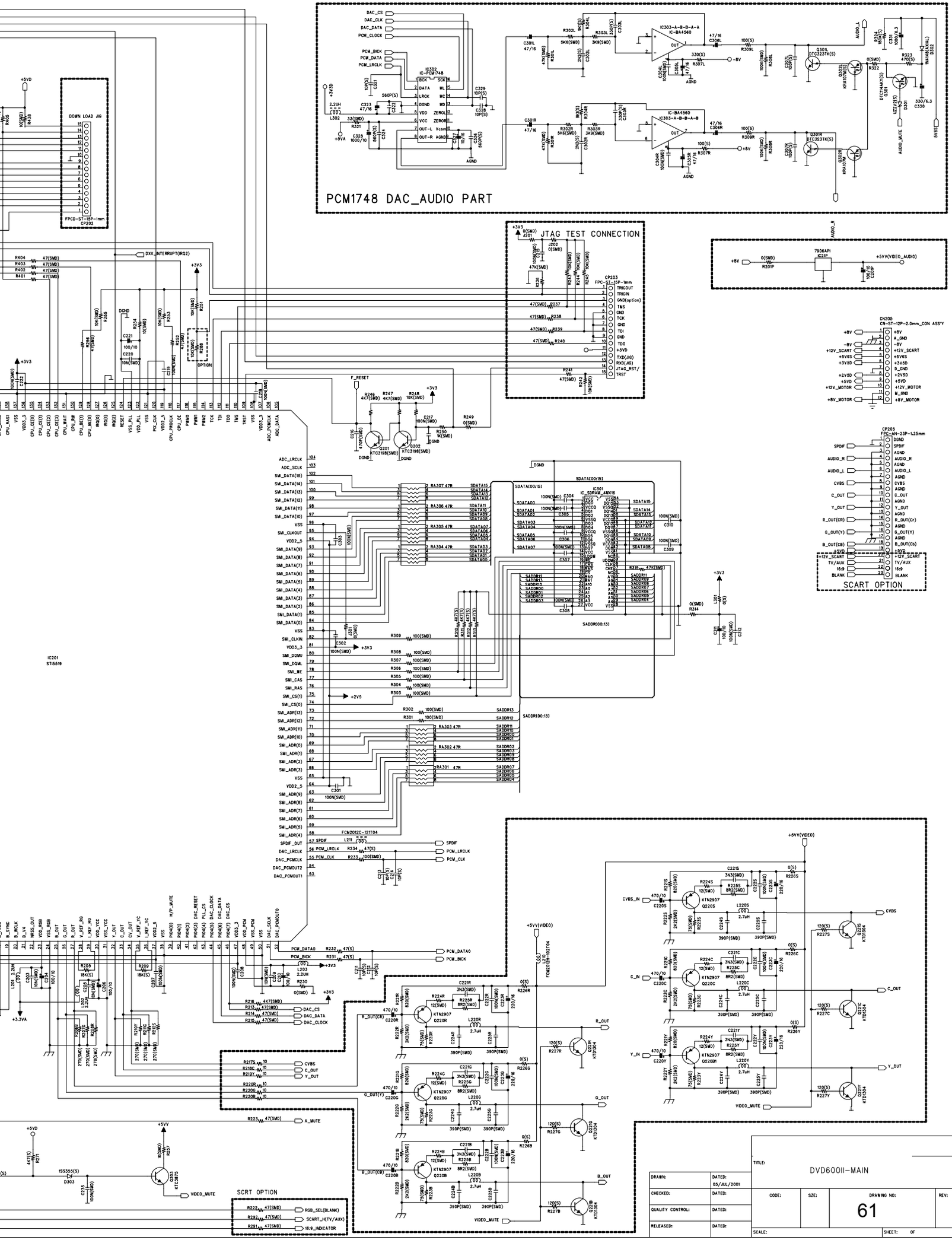
METIC DIAGRAM

DVD6001I

(TO# 5519~~100XX : AC SCHEMATIC MAIN DD DVD600II~~)

(TO# 5519763AXX : AC PCB MAIN DV-C503 DUAL LAYERS)

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



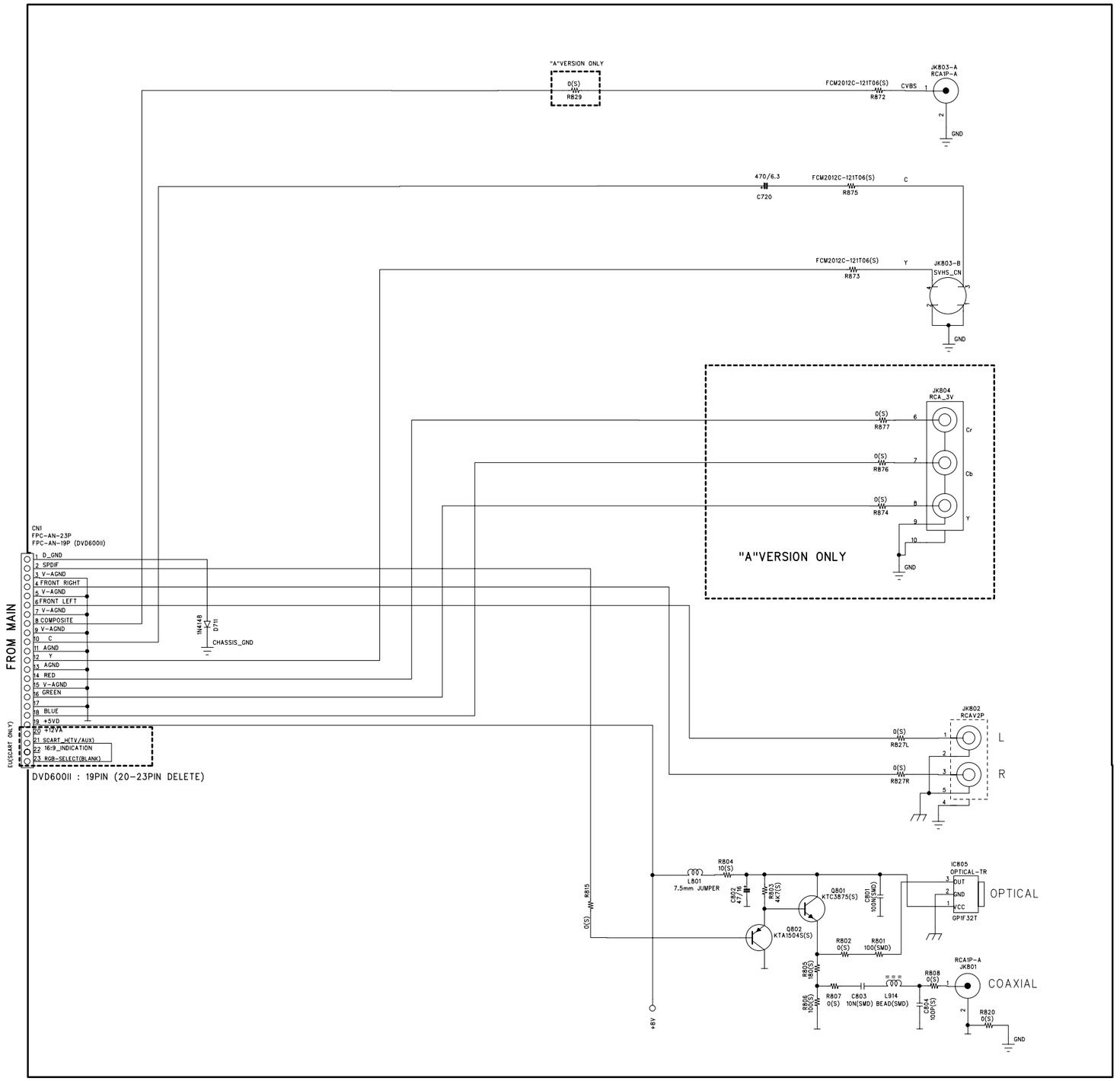
TITLE: DVD6001I–MAIN

DRAWN:	DATED: 05/JUL/2001	CODE:	SIZE:
CHECKED:	DATED:	DRAWING NO: 61	REV:
QUALITY CONTROL:	DATED:		
RELEASED:	DATED:	SCALE:	SHEET: OF

DVD6001I REAR SCHEMATIC DIAGRAM

(TO# 55191200 : AC SCHEMATIC OUT BD DVD6001I)
(TO# 55156850 : AC PCB OUT DV505 SINGLE LAYER)

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



DRAWN:	DATED: 05/JUL/2001	TITLE: DVD6001I REAR SCHEMATICS	
CHECKED:	DATED:	CODE:	SIZE: DRAWING NO: REV:
QUALITY CONTROL:	DATED:		
RELEASED:	DATED:	SCALE:	SHEET: OF

NO	DATE	POS.	CONTENTS	NO	DATE	POS.	CONTENTS

DVD6001I—WIRING DIAGRAM

DVD6001I

AC CORD

CN1(AC)

CN4
CN-2.5-12P

CN205
CN-2.5-12P
+8V(VIDEO&AUDIO)
AGND
-8V(VIDEO&AUDIO)
+12V(SCART)
RESET
+3V5D
DGND
+2V5D
+5VD
+12V(MOTOR)
GND(MOTOR)
+8V(LOADING)

POWER
SUPPLY(SMPS)
55184690XX

MAIN B'D 5519763AXX

CP201
FPC-ANG-1.25MM-19P
NC
DGND
SECTOR START
DATA VALID
(EXT_DATA)
(EXT_BCLK)
DGND
(+3V3 RESET)
(IRQ2) DXX INTERRUPT
(SCL)
(SDATA)
DGND
MOTOR GND
+3V3
+5V
DGND
AGND
+12V DISCMOTOR
+12V TRACK MOTOR

MECHA
F/E B'D

DVD6001I : 55124600_CONN 1.25MM 19 FE ST

CP205
A_GND
A_R
AGND
A_L
V_GND
CVBS
V_GND
C
V_GND
Y
V_GND
R(Cr)
V_GND
G(Y)
V_GND
B(Cb)
+5VD
+12V_SCART
TV/AUX
16:9
BLANK

CN1

DVD6001I : 55124600XX_CONN 1.25MM 19 FE ST "PAL" OPTION

OUTPUT B'D 55156850XX

CN201

CN905

CNT B'D
55190900XX-3

CN904

CN206
ROU_MO-
ROU_MO+
ROU_SEN
DISK_SEN
CLOSE_SEN
OPEN_SEN
ID_MO-
ID_MO+
+8V_MOTOR
M_GND
+5VD
M_GND

P406

MECHA B'D 55183170XX

P4
+
-

MOTOR

MASTER_SW
M/S

CN3
GND
+FL(AC4V5)
-27V
-FL(AC4V5)
+5VS

LED B'D
55190900XX-2

CN901
GND
+FL(AC4V5)
-27V
-FL(AC4V5)
+5VS

CN902
RESET_MAIN
RxD
TxD
TV/AUX
+5V6S

FRONT B'D 55190900XX

CN904F
CP-LG-ST-03P

CP904
CP-LG-ST-03P

DIGI-LINK B'D
55190900XX-2

CP903
CN-2.0-04P

CN903
CN-2.0-04P
+5VS
LED
KEYIN1
GND

CONFIDENTIAL/CONTROL COPY

FILENAME	CODE NO.			SHEET
WIRING				1 / 1
MODEL	DESIGN	CHKD	CHKD	APPROVAL
DVD6001I				
DESIGN DATE				
18/SEP/2001				